

	In use-case diagram, what is system illustrated by?  1. oval  2. box  3. circle  4. triangle  Correct Answer: 2
	UML supports phases of software development  1. earlier  2. final  3. middle  4. all  Correct Answer: 4
А. В. С.	Which Agile principle can help in chronic situation? Incremental Delivery Continuous Integration PMO Policy Latest Technology
	requirement analysis  1. delivers a system in a series of versions 2. organizes abstraction 3. builds a bridge between user and developer 4. uses experimental software to better understand user requirements  Correct Answer: 3
	What is type of software maintainance?  1. adaptive 2. corrective 3. perfective 4. obsolescene  Correct Answer: 4
	which of the following activities of SDLC involves choosing a system structure capable of satisfying quirement specification?  1. requirement analysis  2. design  3. coding  4. testing  Correct Answer: 2
7.	pick up the odd one out of the following  A. data flow diagram  B. object identification  C. structural decomposition  D. E-R diagrams  Correct Answer: 2
	Lifecycle model describe how software system should be developed and describe w software are actually developed.  1. Prescriptive & Descriptive



- 2. Prescriptive & Definitive
- 3. Descriptive & Prescriptive
- 4. Descriptive & Intuitive

- 9. The requirement phase consist of
- a) Problem analysis b) Requirement specification
- c) Requirement validation d) Problem validation
  - 1. a, b, c
  - 2. a, b, c, d
  - 3. a, b, d
  - 4. a, c, d

**Correct Answer: 2** 

- 10. \_\_\_\_\_ is a method for estimating the software
  - 1. COCOMO
  - 2. Function Point Analysis
  - 3. Use Case Estimation
  - 4. All of the above

**Correct Answer: 4** 

- 11. The elements of the software architecture of a computing system include
- 1. software components
- 2. class diagrams
- 3. connectors expressing relationships between software components
- 4. entity relationship diagrams
  - 1.1&2
  - 2.1&3
  - 3. 1, 3 & 4
  - 4. 1, 2, 3 & 4

**Correct Answer: 2** 

- 12. Ability of a software to perform intended function with minimum consumption of computing resources
  - 1. Effeciency
  - 2. Robustness
  - 3. Reliability
  - 4. Correctness

**Correct Answer: 1** 

- 13. Ability to deal with exceptional conditions e.g. invalid input, improper handling, power failure, disk crash etc.
  - 1. Effeciency
  - 2. Robustness
  - 3. Reliability
  - 4. Correctness

- 14. Maintainability is the ease with which a software can
  - 1. be corrected if an error is encountered



- 2. adapted if its environment changes
- 3. enhanced if the customer desires a change in requirements
- 4. all of above

- 15. The type of testing carried out along with coding is called
  - 1. system testing
  - 2. unit testing
  - 3. pretesting
  - 4. stress testing

**Correct Answer: 2** 

- 16. The type of software maintainence which is done to remove bugs or defects in the software is called
  - 1. Corrective Maintainence
  - 2. Adaptive Maintainence
  - 3. Regressive Maintainence
  - 4. Perfective Maintainence

**Correct Answer: 1** 

- 17. RAD stands for
  - 1. Rapid Application Development
  - 2. Random Access Disc
  - 3. Random Application Driver
  - 4. Rapid Alignment Disc

**Correct Answer: 1** 

- 18. Which of the following is not true about Component Assembly Model
  - 1. It is similar to the Spiral Model
  - 2. The technical framework for this model is provided by object technologies
  - 3. Candiate classes are extracted from class library or developed
  - 4. Its productivity is low

**Correct Answer: 4** 

- 19. Which of the following is not true about the context diagram?
  - 1. It does not show details of the funtioning
  - 2. It shows major inputs & outputs of the system
  - 3. It shows the external entities of the system
  - 4. It shows the datastores of the system

**Correct Answer: 4** 

- 20. Data Items in a data dictionary are description of
  - 1. Input data
  - 2. data flows
  - 3. data stores
  - 4. All of the above

- 21. The ways of describing specifications at different levels of detail include
  - 1. requirements definition



- 2. requirements specification
- 3. both a and b options
- 4. None of these options

- 22. Stable requirements are
  - 1. Requirements related to the core activities of software customer
  - 2. Requirements which are dependent on the environment where the delivered system is to be used
  - 3. both a and b options
  - 4. none of these options

**Correct Answer: 1** 

- 23. Functional Independence is not achieved by
  - 1. Coupling
  - 2. Modularity
  - 3. Information Hiding
  - 4. Any of the above

**Correct Answer: 1** 

- 24. If two modules are coupled without exchange of data or control information then they exhibit
  - 1. Normal Coupling
  - 2. Stamp Coupling
  - 3. Control Coupling
  - 4. Common Coupling

**Correct Answer: 1** 

- 25. Which of the following is a graphical tool for software design?
  - 1. Data Flow Diagram
  - 2. Structure Chart
  - 3. Decision Tree
  - 4. all of the above

**Correct Answer: 4** 

- 26. What manifests in the patterns of choices made among alternatives ways of expressing an algorithm is
  - 1. a data flow diagram
  - 2. coding style
  - 3. a data dictionary
  - 4. None of these options

**Correct Answer: 2** 

- 27. Changes made to the software to correct defects uncovered after delivery is called
  - 1. perfective maintainence
  - 2. regressive maintainence
  - 3. adaptive maintainence
  - 4. corrective maintainence

- 28. Arrang the following in the correct sequence of software estimation a. Schedule Estimation b. Effort Estimation c. Cost Estimation d. Size estimation
  - 1. b, c, a, d
  - 2. c, a, b, d



- 3. d, b, a, c
- 4. a, c, d, b

- 29. Final Function point count calculated for project will result in the smallest LOC if implemented in
  - 1. Assembly
  - 2. C
  - 3. C++
  - 4. Visual Basic

**Correct Answer: 4** 

- 30. Project schedule can be illustrated using
  - 1. DFD and ERD
  - 2. Bar chart
  - 3. Activity chart
  - 4. Both b and c options

**Correct Answer: 4** 

- 31. Most of the project plans should include
  - 1. Risk analysis
  - 2. Project organization
  - 3. Project schedule
  - 4. All of the above

Correct Answer: 4

- 32. \_\_\_\_\_ shows the dependencies between the different activities making up a project.
  - 1. PERT chart
  - 2. Bar chart
  - 3. Staffing Plan
  - 4. Pi chart

**Correct Answer: 1** 

- 33. Chief Programmer Teams are suitable for projects
  - 1. with research orientation
  - 2. with high modularity
  - 3. with high creativity
  - 4. None of these

**Correct Answer: 2** 

- 34. Judging the seriousness of a risk by evaluating its probability along with its consequences is called
  - 1. Risk analysis
  - 2. Risk Projection
  - 3. Risk Estimation
  - 4. all of the above

**Correct Answer: 4** 

- 35. The RMMM plan is generally included in the
  - 1. Feasibility Study
  - 2. Project Plan
  - 3. SRS Document
  - 4. Project Legacy



**false** not always

36. InvalidateRect() puts WM_PAINT message in message queue.  1.true  2.false  3.Not Always
<ul><li>37. UpdateWindow() paints the client area.</li><li>1.True</li><li>2.False</li><li>3.Not Always</li></ul>
<ul> <li>38. HINSTANCE type variable stores id of running application</li> <li>1. True</li> <li>2 False</li> <li>3 Not Always</li> </ul>
39. WM_TIMER is the highest priority message 1.true 2.false 3.not always
40. The WM_INITDIALOG message is sent to the dialog box procedure immediately before a dialog box is displayed.  1.true  2.false  3.not always
<ul><li>41. SendMessage is not directly send to the window procedure.</li><li>1.true</li><li>2.false</li><li>3.not always</li></ul>
42. Icon is a Text resource.  1.true  2.false  3.not always
<ul> <li>43. Subclassing means changing the behaviour of controls.</li> <li>A. true</li> <li>B. false</li> <li>C. not always</li> </ul>
<ul> <li>44. CALLBACK functions are called by the operating systems.</li> <li>a) true</li> <li>b) false</li> <li>c) not always</li> </ul>
45. WINAPI is not related to calling conventions. true



46. Which of the following operations is provided by a common dialog box? Choosing an icon Choosing a network drive. Choosing a database. Choosing a font.
47. What is the primary difference between SendMessage and PostMessage? SendMessage is used for local queues, while PostMessage issued for remote queues. SendMessage can only be used within a worker thread, while PostMessage can be used at any time. SendMessage can only send messages to the application thread, while PostMessage can send messages to any thread.
SendMessage is called from within a Windows procedure, while PostMessage is called from within
message queues
48. Menu is
A. GDI Object
B. Resource
C. Picture D. Item
49. Following is not type of Device Context
A. Screen Device Context
B. Window Device Context
C. Client area Device Context
D. View Device Context
50. Modal DialogBox is created on &ModalessDialogBox is created on
A. heap, stack
B. stack, heap
51. Which of the following are resources.
Menu
Bitmap
StatusBarlcon
52 function creates model dialog box.
createDialog()
DialogBox()
DlgBox() Iunknown
TUTKTOWT
53 is return type of window procedure. handle to the window  LRESULT  BOOL
INT
54. To subclass window's background brush API call is used.  SetClassLong()SetClass()  SetLongClass()  SetLong()
55 , , & are the
parameters of WinMain().



	ce , messege , iCmdShowhInstance , hPrevInstance , szCmdLine , iCmdShowhwno aramhInstance ,message , wParam , lParam
56	is first message passed to window procedure.
WM PAINT	<del></del>
WM_CREATE	
WM_SHOW	
WM_COMMAND	
57. fu	nction creates modeless dialog box.
CreateDialog()Dailog()	
CreateDialogBox()	
DialogBox()	
58. Write Windows me	essages in higher order
1. WM_TIMER	
2. Posted Message	
3. WM LBUTTONDOWN	<b>V</b>
4. Sent Message	
5. WM PAINT	
1,2,3,4,55,4,3,2	.1
2,3,4,5,1	,
3,4,5,1,2	
59. Write steps to crea	te standard windows application
1) Initialise and Register	· Window class
2) Create window	
3) Display Window	
4) Message loop	
5) WndProc1, 2, 3, 4,	5
2,3,4,5,1	
3,4,5,1,2	
4,5,1,2,3	
60. A windows prograr	n should have a message loop comprising of GetMessage(), DispatchMessage()
	) to process messages from the message queue.
true	,
false	
not always	
61. GetDC() is used to	retrieve the device context handle for the windows client area when processing a
WM_PAINT message.	L 11111 O.
true	
false	
not always	

62. If a printable key is pressed then WM\_CHAR message will be generated and the ASCII code of the key will be stored in wParam. **true** 

false

not always



63. Whenever WM_LBUTTONDOWN,WM_MOUSEMOVE,WM_RBUTTONDOWN messages are generated that time LOWORD(wParam) and HIWORD(wParam) consists of x and y coordinates of the mouse pointer. true false
not always
64. Predefined controls send WM_COMMAND message whereas common controls send WM_NOTIFY message.  true false not always
65. A Device Context is a GDI structure, which deals with text and graphics.  true false not always
66. A Metafile is a collection of GUI functions that are encoded in a binary format.  true false not always
67. A Clipboard is used to transfer information between applications or within application. true false not always
68. WinMain is an entry point for windows application.  True  False  Not Always
69. Menu is GDI Object. True False Not Always
70. WINAPI is a API function which explicitly calls Operating System to run Window Procedure.  True False Not Always
71. When function key(s) pressed on the keyboard that time WM_KEYDOWN message is generated. True False

True False

Not Always

Not Always

72. LRESULT is a return type of Dialog Procedure.



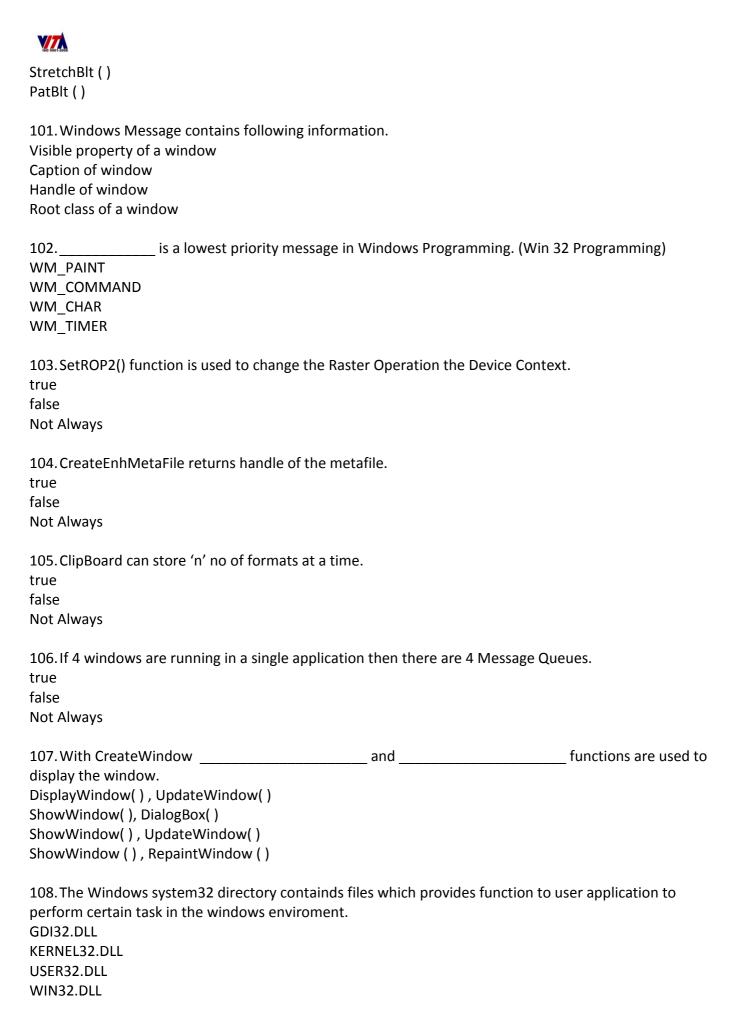
73. SetPixel is used to draw a particular pixel with a particular color.  True  False  Not Always
74. GetROP2 () is used to get the current drawing mode. True False Not Always
75. Pallette is an attribute of a device context.  True  False  Not Always
76. Windows TIMER is not an input device. True False Not Always
77. In MDI application the default window procedure for main Window is DefWindowProc (). True False Not Always
78. The WM_INITDIALOG message is sent to the dialog box procedure immediately before a dialog box is displayed.  True False Not Always
79. In MDI application child windows are created by mainframe windows.  True  False  Not Always
80. Cursor is a GDI Object. True False Not Always
81. SubClassing means changing the behaviour of the controls.  True  False  Not Always
82. Color Dialog box is a common dialog box.  True  False  Not Always



			ssage that time, you must efore calling RegisterClassEX
(). CS_DBLCLKS CS_DBLCLICKS CS_DBLS CS_DOUBLECLICKS			
84PlayFile	_ is used to play the meta PlayMetafile	afile. OpenMetafile	
85. To use the windows co a) COMMONCTL b) COMCTL c) COMMDLG d) COMMCTL	ommon controls always ir	nclude	h header file.
86. You can obtain the star GetKeyState() Key_getValue() GetState() GetStatus()	te of Shift keys by using _	f	unction.
87. Entry point function of Main() DLLMain() StartDLL() RunDLL()	a DLL is	·	
88 is a NewThread() Thread() CreateThreadInstance() CreateThread()	a function for creating a <sup>-</sup>	Γhread.	
89. InvalidateRect sends _ WM_COMMAND WM_PAINT WM_DISPLAYCHANGE WM_CHANGE	message	n message queue.	
90. For drawing an Icon or PaintIcon() PasteIcon() DrawIcon() LoadIcon()	n client area of window _	function	is used.
91. You can create a logical CreateFont() CreateFontdirect() CreateFontIndirect() NewFont()	Il font by calling which of	the following function	S.



92. Dynamic Linked Library is loaded in the memory at Static time Run time Load Time Compile Time.
93. Menu is GDI Object Resource Picture Item
94. Which API call is used to check what type of data available in clipboard. IsClipboardFormatAvailable ( ) IsClipboardContainData ( ) IsTypeofData ( ) SetClipboardData ( )
95. Following option is not a mapping mode.  MM_ISOTROPIC  MM_TEXT  MM_BITMAP  MM_HIMETRIC
96. Following is not a type of device context Screen Device Context Window Device Context Client Area Device Context View Device Context
97. Following is not a raster operation. R2_COPYPEN R2_XORCOPYPEN R2_NOT R2_YES
98. Every instance of a running program is of virtual address space. 4 GB 2 GB 6 GB 64 MB
99. Default size of heap is 2 MB 1 MB 32 MB None of the above
100. Following is not a bitmap related API call.  PasteBlt ( )  BitBlt ( )



109. The layer between the application and different types of hardware Application Layer



# **GDI** layer

DataLayerShellLayer

110. The Message received if the right mousebutton is pressed in thtnonclient is

WM RBUTTONDOWN

WM NCRBUTTONDOWN

WM NCIRBUTTONDOWN

WS RBUTTONDOWN

111. In order to receive Doubleckick message a window must be created with which window style?

DB\_DBCLK

CS DBLCLICK

CS DBLCLKS

CS\_DBLCLK

112. Which message helps in detacting mouse movement and finding mousecursor position

WM MOUSEMOVE

WM MOUSEPOS

WM ONMOUSEMOVE

None of these

113. When child Control in a dialogbox is activated window sends which message?

WM COMMAND

SendDlgItem

WM NOTIFY

WM\_ACTIVATE

114. Which function will test whether the message is fr the dialogbox or the window?

DlgMessage()

SendDlgMessage()

TranslateMessage()

IsDialogMessage()

115. Which function creates a modal dialog box?

CreateDialog()

DialogBox()

DoModal()

CreateDialogBox()

116. Which function creates a modaless dialog box?

CreateDialog()

DoModal()

DialogBox()

CreateDialogBox()

117. Modal DialogBox is destroyed by calling which function?

EndDialog()

DestroyDialog()

EndDialogBox()

EndModal()



118. Which function sends a message to controls in a dialogbox? SendDlgItemMessage() SendDlalogMessage() SendDialogItemMessage() none of these 119. The register() function takes a pointer to the WndClass structure as a parameter True False 120. WM\_CHAR is a combination of WM\_KEYUP and WM\_KEYDOWN. True False 121. Only Modless Dialogbox can be moved on the screen. True False 122. The ID value for the child window is passed by IParam Parameter with the mseeage. True False 123. In which message it is better to initialiaze all the controls with in the dialogbox. WM CREATE WM INITDIALOG WM INIT WM\_COMMAND 124. The CopyMetaFile function copies the content of a window-format MetaFile to Specified File CreateMetaFile CopyMetaFile CopyDataGetMetaFile 125. TraslateMessage Detects a KeyBoard action that traslates to an ANSI Character True False 126. ScrrenCooridinates are pixels measured from the upper left corner of the window's client area. True False 127. SelectObject function obtains an object from Device Context True False 128. CreatPen Return handle to Old Pen True False

129. Which function use to copy file from one Devicecontext to another DeviceContextBitBltCreateCompatibleDcCopyBltCopyBlt



True False

130. Handle to BITMAP is **HBITMAP HBMP HACCEL HDC** 131. To Create Thread Function used is AfxBeginThreadCreateThreaddoThread Create 132. WM\_CREATE Message is generated after Window is Displayed True False 133. The Thread Control Panel is capable of performing the following action **Setting Thread Priority** Suspending a Thread **Resuming Thread** Terminating a Thread 134. which values are used to Set thread priority 15 -2 4 -1 135. To display a modless dialog which property u have to add in its resource files? WM\_SHOW WS SHOW WS VISIBLE WS DISPLAY 136. A Mouse Click on MenuBar generates: WM COMMAND WM NOTIFY WM CHAR WM\_MENUCLICK 137. change in the size of the status bar generates: WM RESIZE WM\_SIZE WM CHANGE WM\_COMMAND 138. Get TextMatrix() determines the physical dimention of the font currently selected in the DC. True False 139. BeginPaint() Prepaires the windows client area for painting.

140. Rectangle function takes: 2 Parameters 5 Parameters 4 Parameters None Of the Above
141. The WndClass Structure must be registered with the window before it can be used to create a window.  True  False
142. To halt the execution of a thread: KillThread() SuspendThread() TerminateThread() None of These
<ul> <li>143. The following are the steps of SDLC</li> <li>1. Analysis</li> <li>2. Design</li> <li>3. Testing</li> <li>4. All of the above</li> <li>Correct Answer: 4</li> </ul>
<ul> <li>144. The SDLC Model most suitable for large projects with clear knowledge &amp; priority of requirements is</li> <li>1. Spiral Model</li> <li>2. Incremental Model</li> <li>3. Waterfall Model</li> <li>4. Prototyping Model</li> <li>Correct Answer: 2</li> </ul>
<ol> <li>145. Which of the following is not true about the Waterfall Model?</li> <li>1. It is suited for small projects</li> <li>2. It does not consider risk handling</li> <li>3. It gives efficient staff utilization</li> <li>4. It needs clarity of requirements at start.</li> <li>Correct Answer: 3</li> </ol>
146. Prototyping in software process may involve

- 1. throw away prototyping
- 2. evolutionary
- 3. Both a and b options
- 4. None of these

- 147. Which of the following model may require largest deployment of manpower
  - 1. Incremental Model
  - 2. Waterfall Model
  - 3. Component Assembly Model



#### 4. RAD Model

## **Correct Answer: 4**

- 148. The majority of the lifetime of a program is spent in the \_\_\_\_\_ phase
  - 1. Maintenance
  - 2. Analysis
  - 3. Design
  - 4. Testing

**Correct Answer: 1** 

- 149. In Boehm's spiral model, each loop in the spiral represents \_\_\_\_\_ of the software process
  - 1. phase
  - 2. design
  - 3. documentation
  - 4. none of the above

**Correct Answer: 1** 

- 150. Which of the following is seen in the DFD but not in the Context Diagram
  - 1. Data Sources
  - 2. Data Flows
  - 3. Data Stores
  - 4. Users

#### Correct Answer: 3

- 151. Data flow cannot take place between
  - 1. a store & a process
  - 2. external entity & process
  - 3. store & an external entity
  - 4. peocess& process

**Correct Answer: 3** 

- 152. "Balancing of DFD" is means
  - 1. conservation of inputs & outputs at various levels
  - 2. Sub dividing a process into smaller subprocesses
  - 3. Labelling of all data items
  - 4. Allowing data flows to take place only to or from processes

**Correct Answer: 1** 

- 153. A data flow diagram is not a
  - 1. logical model of a system
  - 2. good guide to a system
  - 3. representation of the physical system
  - 4. All of these options

Correct Answer: 3

- 154. DFDs, decision tables, decision trees are tools of
  - 1. Requirements analysis
  - 2. Requirements modelling
  - 3. Software Design
  - 4. All of the above



155. Which model used to show data processing at different levels of abstraction from fairly abstract to fairly detailed

- 1. Semantic Data Models
- 2. Object Model
- 3. Data Flow Models
- 4. Service Usage Models

**Correct Answer: 3** 

156. \_\_\_\_\_ models describe the logical structure of the data which is imported to and exported by the system.

- 1. Object
- 2. Semantic data
- 3. Data flow
- 4. None of the above

**Correct Answer: 2** 

157. Which of the following is true about E-R Diagrams?

- 1. They consist of object-relationship pairs
- 2. It indicates cardinality of relationships
- 3. It indicates modality of relationships
- 4. all of the above

**Correct Answer: 4** 

158. Which of the following is not a characteristic of a good SRS document?

- 1. Unambigious
- 2. Verifiable
- 3. Redundant
- 4. Consistent

**Correct Answer: 3** 

159. Find the odd one out

- 1. Axiomatic Specification
- 2. Algebraic Specification
- 3. Z Specification
- 4. Data Flow Diagram

**Correct Answer: 4** 

160. Which is the most undesirable form of cohesion from the following options

- 1. Sequential
- 2. Coincidental
- 3. Temporal
- 4. Communicational

**Correct Answer: 2** 

161. The external interface design process should be \_\_\_\_\_

- 1. developer centered
- 2. user centered
- 3. administrator centered
- 4. management centered



- 162. Which of the following is true with respect to function oriented & object oriented design methodologies
  - 1. They vary in the basic abstractions they use
  - 2. They vary in the way state information is maintained
  - 3. They vary in the way functions are grouped
  - 4. All of the above

**Correct Answer: 4** 

163. In which of the following phases of a use-case driven process do you think use cases have a role?

- a) Requirements capture b) Analysis c) Design d) Implementation e) Test
  - 1. a, b and c
  - 2. a, b, c and d
  - 3. b and d
  - 4. a, b, c, d and e
- 164. Which of the following is NOT true about comments
  - 1. Comments should use problem domain terminology
  - 2. They should explain the code at cruicial places only
  - 3. They should be used to document changes to the code
  - 4. They add up to the LOC size of the software

**Correct Answer: 4** 

165. Use of coding standards

- 1. eases the task of integration of software modules
- 2. enhances the maintainibility of the software
- 3. enhances reusibility of the software
- 4. All of these options

**Correct Answer: 4** 

166	is a programming method which combines data and instructions for processing
that data into a self-su	ufficient block that can be used in other programs.

- 1. modular programming
- 2. top down design
- 3. object oriented programming
- 4. structured programming

**Correct Answer: 3** 

167. A test case design technique that makes use of a knowledge of the internal program logic

- 1. Black Box Testing
- 2. White Box Testing
- 3. Unit Testing
- 4. None of these

**Correct Answer: 2** 

168. Black box test cases can be derived from

- 1. source code
- 2. flowchart
- 3. SRS Document
- 4. pseudocode



169. Which of the following is true about Boundary Value Analysis?

- 1. It is an approach to designing black box test cases
- 2. It is complementary to Equivalence Class Partioning
- 3. It gives test cases based on the boundaries of the equivalence classes
- 4. All of the above

**Correct Answer: 4** 

# 1. Cyclomatic complexity is calculated from

- 1. Data Flow Graph
- 2. Structure Chart
- 3. Control Flow Graph
- 4. All of the above

**Correct Answer: 3** 

170. Which of the following is true about McCabe's Cyclomatic Complexity of a Program

- 1. It is an indicator of the structural complexity of a program
- 2. It gives the maximum no of independent paths in a program
- 3. It is calculated from the no. of edges & nodes in the Control Flow diagram
- 4. All of the above

**Correct Answer: 4** 

Effective Software Project Management focusses on

- 1. People
- 2. Problem
- 3. Process
- 4. all of above

**Correct Answer: 4** 

- 171. Which of the following is generally not a part of the SPMP document?
  - 1. Configuration Management Plan
  - 2. Quality Assurance Plan
  - 3. Risk Management Plan
  - 4. Requirements Elicitation Plan

**Correct Answer: 4** 

- 172. Conversion of Adjusted Function Point Count to LOC count is dependent on
  - 1. Team Size
  - 2. Project Duration
  - 3. Programming Language
  - 4. Cost Drivers

**Correct Answer: 3** 

- 173. The crtitcal path of PERT/CPM chart cannot be
  - 1. the path with the longest duration
  - 2. more than one unique path
  - 3. path on which any delays are allowed
  - 4. path with same earliest and latest starts for all activites



- 174. The total float for an activity is
  - 1. the total duration of the activity
  - 2. the difference between the earliest finish time and earliest start time
  - 3. the difference between the latest finish time and the earliest finish time
  - 4. the difference between the latest finish time and the earliest start time

- 175. Which of the following are Software Risk Components
  - 1. Performance
  - 2. Cost
  - 3. Schedule
  - 4. all of the above

**Correct Answer: 4** 

- 176. Risk of unrealistic estimates & schedules can be overcome by
  - 1. Using objective methods of estimation rather than judgemental methods
  - 2. Developing a culture of software reuse
  - 3. Performing multisource estimations
  - 4. all of the above

**Correct Answer: 4** 

- 177. Under SCM the various SCIs are strictly maintained
  - 1. by their respective authors
  - 2. by the appropriate team
  - 3. in a central project database
  - 4. all of the above

**Correct Answer: 3** 

- 178. Cleanroom Software Development process is based on
  - 1. Formal Specification
  - 2. Static Verification
  - 3. Statistical Testing
  - 4. All of the above

**Correct Answer: 4** 

- 179.. Which one of the following is method is not used in describing complex system process
  - 1. Decision table
  - 2. Structure English
  - 3. Finite automata
  - 4. Binary tree

**Correct Answer: 4** 

- 180. Productivity can measure from the relationship
  - 1. Productivity=KLOC/person-month
  - 2. Productivity=KLOC/defects
  - 3. Productivity=KLOC/LOC
  - 4. Productivity=KLOC\*person-month



- 1. external design 2. detailed design 3. architechtural design 4. process design **Correct Answer: 3** 182. Pick up the odd one out of the following process models 1. Component assembly model 2. Prototyping Model 3. Spiral model 4. Waterfall Model **Correct Answer: 4** 183. The Linear Sequential or Classic Life Cycle is also called 1. Waterfall Model 2. Incremental Model 3. Spiral model 4. Prototyping Model **Correct Answer: 1** 184. The waterfall model of the software process considers each process activity as a phase 1. separate 2. discrete 3. Both a and b options 4. None of the above **Correct Answer: 3** 185. Which of the following is not a feature of RAD 1. Well understood, constrained & modularizable requirements 2. Component based construction & use of 4 GL 3. Use of multiple teams each developing separate function 4. Project has high technical risks Correct Answer: 4 186. In the Spiral model the radius of the spiral at any point represents 1. the level of risk 2. the progress made in the current phase 3. the cost incurred in the project till then 4. None of these **Correct Answer: 3** 187. Planning the modular program structure & control relationships between modules is called 1. Architechtural Design 2. High Level Design 3. System Design 4. all of the above **Correct Answer: 4**
- 188. Designers should aim to produce strongly \_\_\_\_\_ and weakly \_\_\_\_\_ designs
  - 1. coupled, functional
  - 2. maintainable, cohesive
  - 3. cohesive, coupled



4. coupled, cohesive

## **Correct Answer: 3**

189. Use of global data areas or global variables may lead to

- 1. Stamp Coupling
- 2. Common Coupling
- 3. Content Coupling
- 4. Control Coupling

**Correct Answer: 2** 

**Correct Answer: 4** 

- 190. Function oriented design process consists of
  - 1. Data Flow Design
  - 2. Structural decomposition
  - 3. Detailed Design
  - 4. all of the above

**Correct Answer: 4** 

- 191. Transform Analysis performed on a DFD identities the
  - 1. Afferent Branch
  - 2. Efferent Branch
  - 3. Central Transform
  - 4. all of the above

**Correct Answer: 4** 

- 192. The two questions "Are we building the right product?" & "Are we building the product right?" correspond to
  - 1. Verification only
  - 2. Validation only
  - 3. Validation & Verification respectively
  - 4. Verification & Validation respectively

**Correct Answer: 3** 

- 193. Which of the following is not a White box testing method
  - 1. Statement coverage
  - 2. Error guessing
  - 3. Path coverage
  - 4. Condition Coverage

**Correct Answer: 2** 

- 194. A stub is a dummy version of the module of the module under testing
  - 1. superordinate
  - 2. subordinate
  - 3. coordinate
  - 4. All of the above



195. A driver is a dummy verion of the \_\_\_\_\_ module of the module under testing

- 1. superordinate
- 2. subordinate
- 3. coordinate
- 4. All of the above

**Correct Answer: 1** 

196. exercises the system beyond its maximum design load

- 1. Thread testing
- 2. Stress Testing
- 3. Back to back testing
- 4. all of the above

**Correct Answer: 2** 

197. Presenting the same tests to different versions of the system and compare outputs is called

- 1. Thread testing
- 2. Stress Testing
- 3. Back to back testing
- 4. all of the above

**Correct Answer: 3** 

198. Which of the following is not a part of Project Plan?

- 1. Risk Management Plan
- 2. Personnel Plan
- 3. Project Montoring Plan
- 4. Software Architechture Planning

**Correct Answer: 4** 

199. Which of the following is true for two projects of same category with the same estimated LOC size and using COCOMO for estimation A) The initial effort estimate for both projects will be same as both have same LOC B) The Effort Adjustment Factor will always be the same for both projects C) The final effort estimate will always be the same for both projects

- 1. Only A is true.
- 2. Only A & B are true
- 3. Only C is true
- 4. Neither A, B or C are true.

**Correct Answer: 1** 

200. In COCOMO terminology a project with software being strongly coupled to complex hardware & stringent regulations on operating procedures is categorised as

- 1. Organic
- 2. Semidetached
- 3. Embedded
- 4. Application

## **Correct Answer: 3**

201. Which version of COCOMO develops estimates for large projects as sum of estimates of its various subsystems by considering the differences in the complexities of its various subsytems



- 1. Basic COCOMO
- 2. Intermediate COCOMO
- 3. Complete COCOMO
- 4. None of the above

202. The minimum time required to finish the project can be estimated by considering the \_\_\_\_\_ path in the activity graph

- 1. Shortest
- 2. Longest
- 3. Average
- 4. SPT

**Correct Answer: 2** 

# 203. PERT/CPM cannot be used for

- 1. Scheduling of projects
- 2. Monitoring & Control of projects
- 3. Optimising Resource Utilization
- 4. Quality control of products

**Correct Answer: 4** 

204. Democratic team structure is suitable for projects

- 1. with strict deadlines
- 2. with clearly known requirements
- 3. with research orientation
- 4. None of these

**Correct Answer: 3** 

205. Arrange the following activities in Risk Assessment in the correct sequence a. Prioritization b. Identification c. Analysis

- 1. b, a, c
- 2. b, c, a
- 3. a, b, c
- 4. c, a, b

#### **Correct Answer: 2**

206. \_\_\_\_\_ ensures that a set procedure is followed to make any changes to the software

- 1. Configuration Identification
- 2. Configuration Control
- 3. Baselining
- 4. all of the above

**Correct Answer: 2** 

## 207. Configuration Management is

- 1. framework activity
- 2. umbrella activity
- 3. one time activity
- 4. None of the above

**Correct Answer: 3** 

### 208. CASE stands for

1. Computing Advanced System Engineering

- 2. Computer Aided Software Engineering 3. Calculating Arithemetic System Engineering 4. None of the above **Correct Answer: 2** 209. Requirement phase is usually done by 1. System Analyst 2. System Administrator 3. System Engineer 4. All **Correct Answer: 1** 1. Number of input
- 210. Which one of the following is not considered as parameter of function point

  - 2. Number of interface
  - 3. Number of file
  - 4. Number of output data

- 211. CASE is expanded as
  - 1. Computer Analysis Software Engineering
  - 2. Computer Aided Software Engineering
  - 3. Computer Aided System Engineering
  - 4. Computer Analysis System Engineering

**Correct Answer: 2** 

- 212. Cohesion is the concept which tries to capture this -----
  - 1. Intra-Module
  - 2. Extra-Module
  - 3. Inner-Module
  - 4. Outer-Module

**Correct Answer: 1** 

- 213. Functional approach is also known as
  - 1. Glass box testing
  - 2. Black box testing
  - 3. Input box testing
  - 4. Output box testing

**Correct Answer: 2** 

214. Object oriented techr	nology`s use of	facilitates reuse of the code and architecture
while its	feature provides systems	with stability, as a small change in requirements
doesn't require massive cl	hanges in the system.	

- 1. Inheritance, Encapsulation
- 2. Inheritance, Polymorphism
- 3. Encapsulation, Polymorphism
- 4. Polymorphism, Abstraction

- 215. Which of the following steps do you think developers should take to create efficient compact applications?
- a. Clearly define initial requirements of the system

b. concentrate earlt development efforts on modeling implementation mechanisms c. Analyze and manage risk throughout the development process d. Leave all software testing until after system has been implemented 1. a, c 2. a, b 3. a, b, d 4. a, b, c **Correct Answer: 1** 216. Which of the following elements combine to form OOAD method a. Notation b. Diagram c. Process d. View 1. a, c 2. a, b 3. a, b, d 4. a, b, c **Correct Answer: 1** 217. Which of the following are aims of UML? a. To model system using OO concepts b. To provide a process for software development c. To support small-scale and large-scale analysis and design d. To provide an insight into implementation mechanism 1. a, c 2. a, b 3. a, b, d 4. a, c, d **Correct Answer: 4** 

218. Towards end of the design phase, \_\_\_\_\_\_ should be allocated to source code components.

- 1. use cases
- 2. relationships
- 3. models
- 4. classes

**Correct Answer: 4** 

219. What do you think is the first step you should take in designing any project?

- 1. design a prototype
- 2. create the test cases
- 3. define problem domain and produce problem statement
- 4. draw up a plan for entire project

Correct Answer: 3

220. If you are finding hard to identify the name of class and to write definition for it. What thing you should do?

- 1. ignore class completely
- 2. do more analysis to get a better understanding of what is invaloved in the class
- 3. write a definition for the class even if it is not very good
- 4. make it a friend class of some other main class



15 do California
221. Which of the following statements are true of use cases and use case models?  a. functionality of a use-case has to be complete from start to finish  b. use case provide developers with classes and operations  c. use cases outline functionality of the system  d. use case models can be used to test the system  1. a, b, c  2. a, b, c, d  3. a, c, d  4. a, c  Correct Answer: 3
222. class diagram represents
1. conceptual design
2. organization of objects
3. set of actions
4. state machine
Correct Answer : 1
223. collaboration diagram represents
1. organization of objects
2. messages on time scale
3. conceptual design
4. set of actions
Correct Answer : 1
224. state chart diagram
1. organization of objects
2. conceptual design
3. set of actions
4. state machine
Correct Answer : 4
225. In OOD primary abstraction mechanism is
1. function
2. class
3. object
4. hierarchy
Correct Answer : 2
226. incremental model
1. delivers a system in a series of versions
2. works with encapsulation and inheriatance to simplify flow of control
3. builds a bridge between user and developer
4. uses experimental software to better understand user requirements
Correct Answer : 1
227. prototyping model
delivers a system in a series of versions
2. builds a bridge between user and developer
3. uses experimental software to better understand user requirements

4. works with encapsulation and inheriatance to simplify flow of control



## 228. software re-engineering actually means reverse enggineers

## 229. re-engineering is a type of software maintainance

# 230. elements of software architecture of a computing systems include

- a. software components
- b. class diagrams
- c. connectors expressing relationships between software components
- d. E-R diagram
  - 1. a, b
  - 2. a, c
  - 3. a, c, d
  - 4. a, b, c, d

#### **Correct Answer: 2**

# 231. Project milestones are mainly divided in these two parts

- 1. DFD and SRS
- 2. interface design and implementation
- 3. feasibility study and detailed design
- 4. requirements and design

#### **Correct Answer: 4**

- 232.. Which is not part of testing?
  - 1. white box testing
  - 2. black box testing
  - 3. inner testing
  - 4. gorilla testing

#### **Correct Answer: 3**

# 233. Which is not part of phases of software development

- 1. high level design
- 2. low level design
- 3. mid level design
- 4. replication, delivery, installation

## **Correct Answer: 3**

# 234. Which software development model incorporates risk management?

- 1. water fall model
- 2. spiral model
- 3. incremental model
- 4. object model

# **Correct Answer: 2**

## 235. largest time is spent on which of the software development phase?

- 1. testing
- 2. enhancement
- 3. bug fixing
- 4. analysis and design

#### **Correct Answer: 2**

## 236. Simple SDLC contain

- 1. requirements, analysis, design, implementation, testing
- 2. analysis, design, implementation, testing, deployment
- 3. analysis, design, implementation, testing, maintainence
- 4. requirements, analysis, design, implementation, deployment



- 1. logical model of system
- 2. good guide to a system
- 3. representation of physical stream
- 4. all of the above

# 238. Productivity metrics

- 1. focuses on the output of the development process.
- 2. focuses on the characteristics of the software.
- 3. provide indirect measure.
- 4. All.

## **Correct Answer: 1**

239. Which is not a type of maintenance?

- 1. Adaptive
- 2. Corrective
- 3. Perfective
- 4. Obsolescence

## **Correct Answer: 4**

#### 240. Adaptive Maintenance is

- 1. To improve the system in some way by changing its basic functionality
- 2. The maintenance due to changes in the environment
- 3. The correction of undiscovered system errors
- 4. None of the above

#### **Correct Answer: 2**

241. Which of the following activities involves choosing a system structure capable of satisfying the requirement specification?

- 1. Requirements Analysis
- 2. Design
- 3. Coding
- 4. Testing

## **Correct Answer: 2**

242. Reliability in a software system can be achieved using the following strategies, EXCEPT

- 1. Fault avoidance
- 2. Fault tolerance
- 3. Fault detection
- 4. Fault rectification

#### **Correct Answer: 3**

243. Agile methods are known as

Predictive

Adaptive

**Process Oriented** 

Short term process methods.

244. Identify the true statements about using a process for software development.

- a) Processes usually divide software development into phases
- b) Processes provide guidelines for what to do at each phase of development
- c) Processes are used o
  - 1. a and c
  - 2. a and b
  - 3. a, b and d
  - 4. a, c and d



<ol> <li>245. Process visibility is enhanced by</li> <li>Defining clear cut phases</li> <li>Producting documents related to each phase</li> <li>Conducting reviews &amp; checks</li> <li>all of the above</li> <li>Correct Answer: 4</li> </ol>	
246. Which of the following activities is not considered as "Umbrella Activity"	
1. S/W Quality assurance	
2. Software Design	
3. S/W configuration management	
4. S/W Project Monitoring & Control	
Correct Answer : 2	
247. SDLC starts with stage	
1. User Requirement and Analysis	
2. Deployment	
3. Testing	
4. Design	
Correct Answer: 1	
248. The analysis phase takes a approach to the system, ignoring its inner workings whereas t	the
design phase takes a approach, making decisions on how the model will be implemented in co	
1. White box & Black box	
2. Black box & White box	
3. Top-Down & Bottom-Up	
4. Bottom-Up & Top-Down	
Correct Answer : 2	
249. The last step in System Development Life Cycle is	
1. Analysis	
2. Implementation	
3. Testing	
4. Maintenance	
Correct Answer : 3	
250. The phase of the systems life cycle contains periodic evaluations and updates of the	3
system	
1. preliminary investigation	
2. Systems analysis	
3. Systems implementation	

4. Systems maintenance

**Correct Answer: 4** 

- 251. The type of software maintainence which is done to add new features to the product is called
  - 1. Corrective Maintainence
  - 2. Adaptive Maintainence
  - 3. Regressive Maintainence
  - 4. Perfective Maintainence



252. The choice of the Software Development Life Cycle Model to be followed for a project depends on A) Initial Clarity of Requirements B) Size of the Project C) Time Frame of the Project D) Clarity on Technical Issues

- 1. A, B & C only
  - 2. A, B & D only
  - 3. A, B, C & D
  - 4. A & D only

**Correct Answer: 3** 

253. Because of the cascade from one phase to another, the model of software development process is known as

- 1. Evolutionary model
- 2. Formal model
- 3. Waterfall model
- 4. None of the above

**Correct Answer: 3** 

254. The Linear Sequential or Classic Life Cycle is also called

- 1. Waterfall Model
- 2. Incremental Model
- 3. Spiral model
- 4. Prototyping Model

**Correct Answer: 1** 

255. Prototype may be used for

- 1. Risk Reduction
- 2. Requirements Elicitation
- 3. User Interface Design
- 4. all of the above

**Correct Answer: 4** 

256. RAD Model is high speed implementation of

- 1. Waterfall Model
- 2. Spiral Model
- 3. Prototyping model
- 4. Component Assembly model

**Correct Answer: 1** 

257. \_\_\_\_\_ means to build a model that can be modified before the actual system is installed

- 1. Maintenance
- 2. Prototyping
- 3. Implementation
- 4. None of the above

**Correct Answer: 2** 

258. A requirement may be a description of

1. functionality to be provided



- 2. constraint on the software
- 3. external interface
- 4. all of the above

## 259. Data Models do not consider

- 1. Attributes of the data object
- 2. Relationships between data objects
- 3. Operations that act on the data
- 4. Any of the above

**Correct Answer: 3** 

260. Notations used to specify the external characteristics, architectural structure, and processing details of a software system include I. Data Flow Diagrams II. HIPO diagrams III. Structure Charts

- 1. I and II Only
- 2. III Only
- 3. I, II and III
- 4. None of the above

**Correct Answer: 3** 

- 261. Formal specification language consists of
  - 1. syntax
  - 2. semantics
  - 3. set of relations
  - 4. all of the above

**Correct Answer: 4** 

- 262. The software architechture is best represented by
  - 1. Context Diagram
  - 2. Flow Chart
  - 3. Structure Chart
  - 4. Data Flow Diagram

**Correct Answer: 3** 

263. Designers should aim to produce strongly and	weakly design	าร

- 1. coupled, functional
- 2. maintainable, cohesive
- 3. cohesive, coupled
- 4. coupled, cohesive

**Correct Answer: 3** 

- 264.. Using \_\_\_\_\_\_ a programmer can detail the logic of the program
  - 1. pseudocode
  - 2. software
  - 3. context diagram
  - 4. data flow diagram

- 265. Which of the following is not true about a flow chart?
  - 1. It shows the flow of control of a program
  - 2. It is a tool for detailed design



- 3. Data interchange is not represented
- 4. It clearly separates various modules of the software

266.	involves modeling	g a system	as a set of inte	eracting functional	units.
------	-------------------	------------	------------------	---------------------	--------

- 1. Object oriented decomposition
- 2. Procedural decomposition
- 3. Functional decomposition
- 4. None of the above

**Correct Answer: 3** 

# 267.. Typographical errors and/or incorrect use of the programming language is referred to as

- 1. logic errors
- 2. syntax errors
- 3. run time errors
- 4. A bug

**Correct Answer: 2** 

# 268. Testing of software falls after \_\_\_\_\_ stage.

- 1. Designing
- 2. Implementation
- 3. Deployment
- 4. Coding

**Correct Answer: 4** 

# 269.. Changes made to the software to accommodate changes to its environment is called

- 1. perfective maintainence
- 2. regressive maintainence
- 3. adaptive maintainence
- 4. corrective maintainence

**Correct Answer: 3** 

# 270.. Major changes made to software after long periods is also called software reengineering or

- 1. perfective maintainence
- 2. regressive maintainence
- 3. adaptive maintainence
- 4. corrective maintainence

**Correct Answer: 2** 

# 271. Which of the following is not a part of Project Plan?

- 1. Risk Management Plan
- 2. Personnel Plan
- 3. Project Montoring Plan
- 4. Software Architechture Planning

**Correct Answer: 4** 

# 272. Function Point Count is dependent on

- 1. Platform & Technology
- 2. Team Size
- 3. H/W & Software Resources
- 4. Features & Functionalities



<ul> <li>273. In COCOMO terminology a project with mixed level of staff experience &amp; part familiarity with the system being developed is categorized as <ol> <li>Organic</li> <li>Semidetached</li> <li>Embedded</li> <li>Application</li> </ol> </li> <li>Correct Answer: 2</li> </ul>
<ul> <li>274. In COCOMO terminology a project with software being strongly coupled to complex hardware &amp; stringent regulations on operating procedures is categorised as <ol> <li>Organic</li> <li>Semidetached</li> <li>Embedded</li> <li>Application</li> </ol> </li> <li>Correct Answer: 3</li> </ul>
<ul> <li>275. The value of COCOMO cost driver attribute for higher than average Programmer Ability will be</li> <li>1. Greater than 1</li> <li>2. Equal to 1</li> <li>3. Less than 1</li> <li>4. None of these</li> <li>Correct Answer: 3</li> </ul>
<ul> <li>276 and are graphical notations which are used to illustrate the project schedule.</li> <li>1. Bar chart and DFD</li> <li>2. ERD and Bar chart</li> <li>3. Class diagram and activity networks</li> <li>4. Bar char and activity networks</li> <li>Correct Answer: 4</li> </ul>
<ol> <li>277. The total float for an activity is</li> <li>the total duration of the activity</li> <li>the difference between the earliest finish time and earliest start time</li> <li>the difference between the latest finish time and the earliest finish time</li> <li>the difference between the latest finish time and the earliest start time</li> <li>Correct Answer: 3</li> </ol>
278. The minimum time required to finish the project can be estimated by considering the path in the activity graph  1. Shortest 2. Longest 3. Average 4. SPT Correct Answer: 2
279. According to Putnam the staffing pattern of a software project follows the Rayleigh-Norden curve and peaks during the

2. Coding & Unit testing

1. Detailed design



- 3. Integration Testing
- 4. System Testing

280. Risks arising out of frequent change requests are best mitigated by

- 1. User characterization
- 2. Strong SCM
- 3. Multisource estimations
- 4. Prescheduling key personnel

**Correct Answer: 2** 

- 281.. Risk of unrealistic estimates & schedules can be overcome by
  - 1. Using objective methods of estimation rather than judgemental methods
  - 2. Developing a culture of software reuse
  - 3. Performing multisource estimations
  - 4. all of the above

**Correct Answer: 4** 

- 282. Automated SCM tools help solve problem of
  - 1. Inconsistencies of SCIs
  - 2. concurrent access to SCI
  - 3. instability of development environment
  - 4. All of these options

**Correct Answer: 4** 

- 283. ensures that a set procedure is followed to make any changes to the software
  - 1. Configuration Identification
  - 2. Configuration Control
  - 3. Baselining
  - 4. all of the above

**Correct Answer: 2** 

- 284. Configuration Management is
  - 1. framework activity
  - 2. umbrella activity
  - 3. one time activity
  - 4. None of the above

**Correct Answer: 3** 

- 285. Under SCM the various SCIs are strictly maintained
  - 1. by their respective authors
  - 2. by the appropriate team
  - 3. in a central project database
  - 4. all of the above

**Correct Answer: 3** 

#### 286. CASE stands for

- 1. Computing Advanced System Engineering
- 2. Computer Aided Software Engineering
- 3. Calculating Arithemetic System Engineering
- 4. None of the above



- 287. Which of the following steps do you think developers should take to create efficient compact applications?
- a. Clearly define initial requirements of the system
- b. concentrate earlt development efforts on modeling implementation mechanisms
- c. Analyze and manage risk throughout the development process
- d. Leave all software testing until after system has been implemented
  - 1. a, c
  - 2. a, b
  - 3. a, b, d
  - 4. a, b, c

288. Towards end of the design phase, \_\_\_\_\_\_ should be allocated to source code components.

- 1. use cases
- 2. relationships
- 3. models
- 4. classes

#### **Correct Answer: 4**

289. Which of the following best describes what the problem domain is?

- 1. kinds of resources available to development team
- 2. surroundings in which system operate
- 3. set of all functionality required of a system
- 4. list of technical details needed to implement project

**Correct Answer: 2** 

290. In which of the following phases of use-case driven process do you think use cases have a role?

- a. requirement capture
- b. analysis
- c. design
- d. implementation
- e. test
  - 1. a, b, c
  - 2. a, b, c, d
  - 3. b, d
  - 4. a, b, c, e

#### **Correct Answer: 4**

291. collaboration diagram represents

- 1. organization of objects
- 2. messages on time scale
- 3. conceptual design
- 4. set of actions

# **Correct Answer: 1**

292. sequence diagram represents

- 1. organization of objects
- 2. messages on time scale
- 3. conceptual design
- 4. set of actions



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	e from perspective and design takes place from
perspective	
1. user, user	
2. user, developer	
3. developer, user	
4. developer, develo	per
Correct Answer : 2	
294 The	_ phase of SDLC aims at ensuring software product is as per requirements.
1. design	
2. development	
3. testing	
4. deployment	
Correct Answer: 3	
295. polymorphism	
1. organizes abstract	
	tween user and developer
<del>-</del>	in a series of versions
•	sulation and inheriatance to simplify flow of control
Correct Answer : 4	sulation and inneriatance to simplify now of control
COTTECT ATISWET . 4	
296. spiral model incarp	orates risk management
Correct Answer : T	ŭ
297. storage manageme	ent is not a part of version management
Correct Answer : F	
298. data flow diagrams	s are part of design phase of SDLC
Correct Answer : T	and have an accident because and a
299. Which is an iterative	ve process through which the requirements are translated to "blueprint" for
constructing software	
<ol> <li>testing</li> </ol>	
2. requirement analy	ysis
<ol><li>design</li></ol>	
4. maintenance	
Correct Answer : 3	
300. What manifests in	the patterns of choices made among alternative ways of expressing an algorithm
is	- · · · · · · · · · · · · · · · · · · ·
1. a data flow diagra	m
2. coding style	
3. a data dictionary	
4. a flow chart	
Correct Answer: 4	

301. quality control

- 1. focuses on ispections, testing and removal of defects before release
- 2. is a set of planned and strictly and strategic actions to provode confidence that the product or service will satisfy given requirements for quality
  - 3. is to check system for its internal errors



#### 4. all of the above

#### **Correct Answer: 1**

302. elements of software architecture of a computing systems include

- a. software components
- b. class diagrams
- c. connectors expressing relationships between software components
- d. E-R diagram
  - 1. a, b
  - 2. a, c
  - 3. a, c, d
  - 4. a, b, c, d

#### **Correct Answer: 2**

303. which of the following types of test plans is most likely to arise from requirement specification process?

- 1. system integration testing plan
- 2. acceptance test plan
- 3. sub-system integration test plan
- 4. module test plan

# **Correct Answer: 2**

304. In project planning first thing is

- 1. set objectiv or goal
- 2. develop strategies and policies
- 3. decision making
- 4. find out requirement

# **Correct Answer: 1**

305.. Which is not part of phases of software development

- 1. high level design
- 2. low level design
- 3. mid level design
- 4. replication, delivery, installation

**Correct Answer: 3** 

306. Which of the following is not part of spiral model?

- 1. planning
- 2. customer communication
- 3. project documentation
- 4. engineering

#### **Correct Answer: 3**

# 307. DFD is not a

- 1. logical model of system
- 2. good guide to a system
- 3. representation of physical stream
- 4. all of the above

#### **Correct Answer: 1**

308. Pick up one of the testing methods given below that is part of white-box testing

1. equivalence partitioning



- 2. boundary value analysis
- 3. basis and testing
- 4. debugging

# 309. Productivity metrics

- 1. focuses on the output of the development process.
- 2. focuses on the characteristics of the software.
- 3. provide indirect measure.
- 4. All.

#### **Correct Answer: 1**

- 310. The requirement phase consist of
- a) Problem analysis b) Requirement specification
- c) Requirement validation d) Problem validation
  - 1. a, b, c
  - 2. a, b, c, d
  - 3. a, b, d
  - 4. a, c, d

# **Correct Answer: 2**

- 311.. Following are the different steps that is to be followed in design methodology arrange them in an order.
- a) First level factoring b) factoring of input
- c) Restate the problem d) Identifying the input and output
  - 1. a, b, c, d
  - 2. c, d, a, b
  - 3. a, d, c, b
  - 4. a, c, b, d

# **Correct Answer: 2**

- 312. Which is not a typ
- 313.e of maintenance?
  - 1. Adaptive
  - 2. Corrective
  - 3. Perfective
  - 4. Obsolescence

#### **Correct Answer: 4**

- 314. COCOMO is an effort estimation model in terms of \_\_\_\_\_
  - 1. Cost
  - 2. Person- Months
  - 3. Both
  - 4. None of the above

# **Correct Answer: 2**

- 315. Pick the odd one out
  - 1. Component assembly model
  - 2. Spiral Model
  - 3. Incremental Model
  - 4. Iterative Model



#### 316. Pick the odd one out

- 1. Data Flow Diagrams
- 2. Object Identification
- 3. Structural Decomposition
- 4. E-R Diagrams

**Correct Answer: 2** 

- 317. Which of the following factors of a Software Product may not contribute much directly to its maintainibility?
  - 1. Understandability
  - 2. Flexibility
  - 3. Security
  - 4. Testability

**Correct Answer: 3** 

- 318. Which of the following activities is not considered as "Umbrella Activity"
  - 1. S/W Quality assurance
  - 2. Software Design
  - 3. S/W configuration management
  - 4. S/W Project Monitoring & Control

**Correct Answer: 2** 

- 319. What is the primary purpose of the first stage of software analysis and design?
  - 1. Determining system deployment
  - 2. Writing code
  - 3. Capturing requirements
  - 4. Building GUIs

**Correct Answer: 3** 

<b>320</b>	SDLC starts with	stage
3 <b>2</b> U.	SDEC STALLS WITH	אומצר

- 1. User Requirement and Analysis
- 2. Deployment
- 3. Testing
- 4. Design

**Correct Answer: 1** 

- 321. The analysis phase takes a \_\_\_\_\_ approach to the system, ignoring its inner workings whereas the design phase takes a \_\_\_\_ approach, making decisions on how the model will be implemented in code
  - 1. White box & Black box
  - 2. Black box & White box
  - 3. Top-Down & Bottom-Up
  - 4. Bottom-Up & Top-Down

- 322. Prototype may be used for
  - 1. Risk Reduction
  - 2. Requirements Elicitation
  - 3. User Interface Design
  - 4. all of the above



- 323. RAD Model is high speed implementation of
  - 1. Waterfall Model
  - 2. Spiral Model
  - 3. Prototyping model
  - 4. Component Assembly model

**Correct Answer: 1** 

- 324. In the Spiral model the radius of the spiral at any point represents
  - 1. the level of risk
  - 2. the progress made in the current phase
  - 3. the cost incurred in the project till then
  - 4. None of these

**Correct Answer: 3** 

- 325. A requirement may be a description of
  - 1. functionality to be provided
  - 2. constraint on the software
  - 3. external interface
  - 4. all of the above

**Correct Answer: 4** 

- 326. During Requirements Phase recording interface requirements of a software system does not include which of the following interfaces
  - 1. User Interfaces
  - 2. Software Interfaces
  - 3. Hardware Interfaces
  - 4. Module Interfaces

**Correct Answer: 4** 

- 327. External Entities in a Context Diagram may be A) People B) Other Software Systems C) Hardware D) Databases
  - 1. Only A & D
  - 2. Only B & C
  - 3. Only A, B & D
  - 4. A,B, C & D

**Correct Answer: 4** 

- 328. Example of a Semantic Data model is
  - 1. data flow diagram
  - 2. Context Diagram
  - 3. Entity Relationship Diagram
  - 4. all of the above

- 329. Data Models do not consider
  - 1. Attributes of the data object
  - 2. Relationships between data objects



- 3. Operations that act on the data
- 4. Any of the above

- 411. A system developed to give end users a concrete impression of the system capabilities is called
- a) 1. Semantics
- b) 2. model
- c) 3. prototype
- d) 4. abstraction

**Correct Answer: 3** 

- 412. Formal specification language consists of
- a) 1. syntax
- b) 2. semantics
- c) 3. set of relations
- d) 4. all of the above

**Correct Answer: 4** 

- 413. Planning the solution to a programming problem using a structured technique is called program
- a) 1. coding
- b) 2. compiling
- c) 3. moduling
- d) 4. design
- e) Correct Answer: 4

f)

- 414. The software architechture is best represented by
- a) 1. Context Diagram
- b) 2. Flow Chart
- c) 3. Structure Chart
- d) 4. Data Flow Diagram

**Correct Answer: 3** 

- 415. Conception & planning out of externally observable characteristics of a software is called
- a) 1. External Design
- b) 2. User Interface Design
- c) 3. Both a and b options
- d) 4. None of the above

**Correct Answer: 3** 

- 416. A way of indicating the desired effect without establishing the actual mechanism
- a) 1. Procedural Abstraction
- b) 2. Data Abstraction
- c) 3. Control Abstraction
- d) 4. None of the above

**Correct Answer: 3** 

417. In case of Bank, what will be the relationship between "Opening of Account" use case and "Deposit" Use case?

A. Uses



- B. Extends
- C. Includes
- D. None of the above

418. The number & complexity of interconnections between two modules is an indicator of

- a) 1. Modularity
- b) 2. Cohesion
- c) 3. Coupling
- d) 4. Abstraction

**Correct Answer: 3** 

419. Use of global data areas or global variables may lead to

- a) 1. Stamp Coupling
- b) 2. Common Coupling
- c) 3. Content Coupling
- d) 4. Control Coupling

**Correct Answer: 2** 

420. The method of deriving the structure chart from the DFD is called

- a) 1. Factoring
- b) 2. Factor Analysis
- c) 3. Transform Analysis
- d) 4. all of the above

**Correct Answer: 3** 

421. Transform Analysis performed on a DFD identitfies the

- a) 1. Afferent Branch
- b) 2. Efferent Branch
- c) 3. Central Transform
- d) 4. all of the above

**Correct Answer: 4** 

422. Which iof the following is true about structure chart notations?

- a) 1. There should be only one module at the top
- b) 2. There should be at the most one control arrow between two modules
- c) 3. The sequence or order of tasks is not represented
- d) 4. All of the above

**Correct Answer: 4** 

423. A programmer must follow the rules for coding a particular programming language. These rules are called:

- a) 1. pseudocode
- b) 2. iteration
- c) 3. syntax
- d) 4. documentation
- e) Correct Answer: 3

f۱

424. Typographical errors and/or incorrect use of the programming language is referred to as

- a) 1. logic errors
- b) 2. syntax errors



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•	<ul><li>3. run time errors</li><li>4. A bug</li></ul>
e)	Correct Answer : 2
425 a) b) c) d) e)	is the process of locating and eliminating program errors.  1. editing 2. correcting 3. debugging 4. testing Correct Answer: 3
431 a) b) c) d) e)	Changes made to the software to accommodate changes to its environment is called  1. perfective maintainence  2. regressive maintainence  3. adaptive maintainence  4. corrective maintainence  Correct Answer: 3
432 a) b) c) d) e) f)	Changes made to the software to extend it beyond its original functionality is called  perfective maintainence  regressive maintainence  corrective maintainence  Correct Answer: 1
	<ul> <li>. Major changes made to software after long periods is also called software reengineering or</li> <li>1. perfective maintainence</li> <li>2. regressive maintainence</li> <li>3. adaptive maintainence</li> <li>4. corrective maintainence</li> <li>Correct Answer: 2</li> </ul>
434 a) b) c) d)	.COCOMO is categorizes as aestimation technique  1. Heuristic  2. Empirical  3. Analytical  4. None of the above  rect Answer: 1
a) b) c)	The value of COCOMO cost driver attribute for higher than average Programmer Ability will be  1. Greater than 1  2. Equal to 1  3. Less than 1  4. None of these
Cor	rect Answer : 3
a)	<ul> <li> and are graphical notations which are used to illustrate the project schedule.</li> <li>1. Bar chart and DFD</li> <li>2. ERD and Bar chart</li> <li>3. Class diagram and activity networks</li> </ul>



d) 4. Bar char and activity networks

#### **Correct Answer: 4**

# 437. Which of the following is true as per Putnam model

- a) 1. Staffing Pattern peaks at Coding & Unit testing
- b) 2. Schedule compression increases effort in proportion to fourth power
- c) 3. Expanding the schedule gives extreme saving in effort
- d) 4. all of the above

# **Correct Answer: 4**

# 438. Democratic team structure is suitable for projects

- a) 1. with strict deadlines
- b) 2. with clearly known requirements
- c) 3. with research orientation
- d) 4. None of these

#### **Correct Answer: 3**

# 439. RMMM is a Risk Management methodology which focusses on

- a) 1. Risk avoidance by developing a risk mitigation plan
- b) 2. Continous risk monitoring throughout the project
- c) 3. Actually managing the risks when they become a reality by contingency planning
- d) 4. all of the above

#### **Correct Answer: 4**

# 440. Risks arising out of frequent change requests are best mitigated by

- a) 1. User characterization
- b) 2. Strong SCM
- c) 3. Multisource estimations
- d) 4. Prescheduling key personnel

#### **Correct Answer: 2**

# 441. Risk of unrealistic estimates & schedules can be overcome by

- a) 1. Using objective methods of estimation rather than judgemental methods
- b) 2. Developing a culture of software reuse
- c) 3. Performing multisource estimations
- d) 4. all of the above

#### **Correct Answer: 4**

#### 442. A change request has to be evaluated for

- a) 1. its technical merit
- b) 2. cost & schedule impacts
- c) 3. side effects
- d) 4. All of these options

#### **Correct Answer: 4**

# 443. Under SCM the various SCIs are strictly maintained

a) 1. by their respective authors



- b) 2. by the appropriate team
- c) 3. in a central project database
- d) 4. all of the above

444. Software quality managers are responsible for . .

- a) 1. Quality assurance
- b) 2. Quality planning
- c) 3. Quality control
- d) 4. All of the above

**Correct Answer: 4** 

445. As per SEI CMM oganizations which do not have any KPAs present & stable are considered at

- a) 1. Level 1
- b) 2. Level 2
- c) 3. Level 3
- d) 4. Level 4

**Correct Answer: 1** 

446.. Which of the following are aims of UML?

- a. To model system using OO concepts
- b. To provide a process for software development
- c. To support small-scale and large-scale analysis and design
- d. To provide an insight into implementation mechanism
- a) 1. a, c
- b) 2. a, b
- c) 3. a, b, d
- d) 4. a, c, d

**Correct Answer: 4** 

447. Q2. In which of the following phases of use-case driven process do you think use cases have a role?

- a. requirement capture
- b. analysis
- c. design
- d. implementation
- e. test
- a) 1. a, b, c
- b) 2. a, b, c, d
- c) 3. b, d
- d) 4. a, b, c, e

**Correct Answer: 4** 

448. If you are finding hard to identify the name of class and to write definition for it. What thing you should do?

- a) 1. ignore class completely
- b) 2. do more analysis to get a better understanding of what is invaloved in the class
- c) 3. write a definition for the class even if it is not very good
- d) 4. make it a friend class of some other main class

**Correct Answer: 2** 

449. Which of the following are possible actors?

a. data inputter



b. GUI component

c. Another system
d. A printer
a) 1. a, b, c
b) 2. a, b, c, d
c) 3. a, b, d
d) 4. a, c
Correct Answer : 3
450. UML can be used as a way to represent only OO software systems
a) Correct Answer : F
451. Use cases can be included in any type of collaboration diagrams.
a) Correct Answer : F
452. collaboration diagram represents
a) 1.
organization of objects
b) 2. messages on time scale
c) 3. conceptual design
d) 4. set of actions
e) Correct Answer: 1
•
453. In OOD primary abstraction mechanism is
a) 1. function
b) 2. class
c) 3. object
d) 4. hierarchy
e) Correct Answer : 2
454. prototyping model
a) 1. delivers a system in a series of versions
b) 2. builds a bridge between user and developer
c) 3. uses experimental software to better understand user requirements
d) 4. works with encapsulation and inheriatance to simplify flow of control
e) Correct Answer : 3
455. storage management is not a part of version management
a) Correct Answer : F
456.Q14. data flow diagrams are part of design phase of SDLC
a) Correct Answer : T
457. Which of the following is reason of project failure?
a) 1. finite resources
b) 2. inaccurate estimates of cost and time
c) 3. others are competing to do the job cheaper and faster
d) 4. none of the above
e) Correct Answer : 2
458. What manifests in the patterns of choices made among alternative ways of expressing an algorithm
is
a) 1. a data flow diagram
b) 2. coding style
c) 3. a data dictionary
d) 4. a flow chart
e) Correct Answer : 4
f)
459 is method for estimating software
a) 1. COCOMO
w <sub>1</sub> = 0000m0



- b) 2. function point analysis
- c) 3. use case estimation
- d) 4. all of the above
- e) Correct Answer: 4

f)

460. pickup odd one out of the following

- a) 1. component assembly model
- b) 2. spiral model
- c) 3. incremental model
- d) 4. iterative model
- e) Correct Answer: 1

f)

461. which of the following types of test plans is most likely to arise from requirement specification process?

- a) 1. system integration testing plan
- b) 2. acceptance test plan
- c) 3. sub-system integration test plan
- d) 4. module test plan
- e) Correct Answer: 2

f)

- 462. Parts of design principle are
- a) 1. correctness, robustness, efficiency, flexibility, understandable
- b) 2. correctness, robustness, efficiency, flexibility, reusibility
- c) 3. flexibility, correctness, robustness, efficiency, standard
- d) 4. flexibility, correctness, robustness, efficiency, security

**Correct Answer: 2** 

463. largest time is spent on which of the software development phase?

- a) 1. testing
- b) 2. enhancement
- c) 3. bug fixing
- d) 4. analysis and design

**Correct Answer: 2** 

464. Which of the following can be a reason for project failure?

- a) 1. Finite resources
- b) 2. Inaccurate estimates of cost & time
- c) 3. Others competing to do the job cheaper & faster.
- d) 4. None of the above

**Correct Answer: 2** 

#### 465. Pick the odd one out

- a) 1. Component assembly model
- b) 2. Spiral Model
- c) 3. Incremental Model
- d) 4. Iterative Model
- e) Correct Answer: 1

f)



<ul> <li>466. Software Engineering is concerned with</li> <li>1. process</li> <li>2. methods</li> <li>3. tools</li> <li>4. all of the above</li> <li>Correct Answer: 4</li> </ul>
<ul> <li>467. An approved feasibility study is a deliverable out of</li> <li>a) 1. Systems design</li> <li>b) 2. Preliminary investigation</li> <li>c) 3. Systems development</li> <li>d) 4. Systems analysis</li> <li>e) Correct Answer: 2</li> </ul>
468. Checklists, grid charts, and decision tables are all tools used in the step a) 1. preliminary investigation b) 2. systems analysis c) 3. systems development d) 4. systems implementation e) Correct Answer: 2 f)
469. The present system is studied in depth during the phase of the systems life cycle.  a) 1. preliminary investigation  b) 2. systems analysis  c) 3. systems design  d) 4. systems development  e) Correct Answer: 2
<ul> <li>470. RAD Model is high speed implementation of</li> <li>a) 1. Waterfall Model</li> <li>b) 2. Spiral Model</li> <li>c) 3. Prototyping model</li> <li>d) 4. Component Assembly model</li> <li>Correct Answer: 1</li> </ul>
471. Arrange the following Requirements subphases in the correct order a. Documentation b. Analysis c. Validation d. Elicitation a) 1. a, b, c, d b) 2. d, b, a, c c) 3. d, c, a, b d) 4. b,a, d c Correct Answer: 2
472. External Entities in a Context Diagram may be A) People B) Other Software Systems C) Hardware D) Databases a) 1. Only A & D b) 2. Only B & C c) 3. Only A, B & D d) 4. A,B, C & D



#### 473. Example of a Semantic Data model is

- a) 1. data flow diagram
- b) 2. Context Diagram
- c) 3. Entity Relationship Diagram
- d) 4. all of the above
- e) Correct Answer: 3

#### 474. Automated CASE tools like PSL/PSA do not help in

- a) 1. Requirements Documentation
- b) 2. Requirements Validation
- c) 3. Requirements Analysis
- d) 4. Requirements Elicitation
- e) Correct Answer: 4

# 475. A system developed to give end users a concrete impression of the system capabilities is called

- a) 1. Semantics
- b) 2. model
- c) 3. prototype
- d) 4. abstraction
- e) Correct Answer: 3

# 476. The requirement engineering process has the following stages, Except

- a) 1. Feasibility study
- b) 2. Requirement analysis
- c) 3. Implementation
- d) 4. Requirement definition
- e) Correct Answer: 3

# 477. Notations used to specify the external characteristics, architectural structure, and processing details of a software system include I. Data Flow Diagrams II. HIPO diagrams III. Structure Charts

- a) 1. I and II Only
- b) 2. III Only
- c) 3. I, II and III
- d) 4. None of the above
- e) Correct Answer: 3

# 478. Planning the modular program structure & control relationships between modules is called

- a) 1. Architechtural Design
- b) 2. High Level Design
- c) 3. System Design
- d) 4. all of the above
- e) Correct Answer: 4

# 479. Conception & planning out of externally observable characteristics of a software is called

- a) 1. External Design
- b) 2. User Interface Design
- c) 3. Both a and b options
- d) 4. None of the above



480. Concept of Abstraction is used in

- a) 1. Reuirements phase
- b) 2. Design Phase
- c) 3. Testing Phase
- d) 4. all of the above
- e) Correct Answer: 4

481. Providing a logical reference to the data object without concern for the underlying representation is

- a) 1. Procedural Abstraction
- b) 2. Data Abstraction
- c) 3. Control Abstraction
- d) 4. None of the above
- e) Correct Answer: 2

482. The number of subordinate modules controlled by a module is called its

- a) 1. control range
- b) 2. fan out
- c) 3. fan in
- d) 4. width
- e) Correct Answer: 2

483. If two modules pass a data structure across their interface they exhibit

- a) 1. Stamp Coupling
- b) 2. Data Coupling
- c) 3. Content Coupling
- d) 4. Control Coupling
- e) Correct Answer: 1

484. Use of global data areas or global variables may lead to

- a) 1. Stamp Coupling
- b) 2. Common Coupling
- c) 3. Content Coupling
- d) 4. Control Coupling
- e) Correct Answer: 2

485. The strength of relationship between which of the following elements of a module is examined to evaluate module cohesion

- a) 1. function declarations, function definations& calls
- b) 2. variable declarations
- c) 3. data definitions
- d) 4. all of the above
- e) Correct Answer: 4

486. The graphical tool commonly used to represent the system architechture is called

- a) 1. Context Diagram
- b) 2. Structure Chart
- c) 3. Architechtural Plan
- d) 4. Event Table



# **Correct Answer: 2** 487. The method of deriving the structure chart from the DFD is called a) 1. Factoring b) 2. Factor Analysis c) 3. Transform Analysis d) 4. all of the above e) Correct Answer: 3 488. Which iof the following is true about structure chart notations? 1. There should be only one module at the top b) 2. There should be at the most one control arrow between two modules c) 3. The sequence or order of tasks is not represented d) 4. All of the above Correct Answer: 4 e) f) \_\_\_\_\_ a programmer can detail the logic of the program 489. Using \_\_\_ 1. pseudocode b) 2. software c) 3. context diagram d) 4. data flow diagram e) Correct Answer: 1 490. Typographical errors and/or incorrect use of the programming language is referred to as a) 1. logic errors b) 2. syntax errors c) 3. run time errors d) 4. A bug e) Correct Answer: 2 491. \_\_\_\_\_\_ is the process of locating and eliminating program errors. a) 1. editing b) 2. correcting c) 3. debugging d) 4. testing **Correct Answer: 3** 492. Changes made to the software to accommodate changes to its environment is called 1. perfective maintainence b) 2. regressive maintainence

- 3. adaptive maintainence c)
- d) 4. corrective maintainence
- Correct Answer: 3
- Your Answer: f)

493. Changes made to the software to extend it beyond its original functionality is called

- a) 1. perfective maintainence
- b) 2. regressive maintainence
- c) 3. adaptive maintainence
- d) 4. corrective maintainence

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e) f)	Correct Answer : 1 Your Answer :
494 a) b) c) d) e) f)	<ul> <li>.Major changes made to software after long periods is also called software reengineering or</li> <li>1. perfective maintainence</li> <li>2. regressive maintainence</li> <li>3. adaptive maintainence</li> <li>4. corrective maintainence</li> <li>Correct Answer: 2</li> <li>Your Answer:</li> </ul>
a) b)	The value of COCOMO cost driver attribute for lower than average Reliability requirement will be  1. Greater than 1  2. Equal to 1  3. Less than 1  4. None of these  Correct Answer: 3
496 a) b) c) d) e)	The crtitcal path of PERT/CPM chart cannot be  1. the path with the longest duration  2. more than one unique path  3. path on which any delays are allowed  4. path with same earliest and latest starts for all activites  Correct Answer: 3
a)	The total float for an activity is  1. the total duration of the activity  2. the difference between the earliest finish time and earliest start time  3. the difference between the latest finish time and the earliest finish time  4. the difference between the latest finish time and the earliest start time  Correct Answer: 3
a) b)	required to finish the project can be estimated by considering the path in the activity graph  1. Shortest 2. Longest 3. Average 4. SPT  Correct Answer: 2
499 a) b) c) d) e)	<ol> <li>Which of the following is true as per Putnam model</li> <li>Staffing Pattern peaks at Coding &amp; Unit testing</li> <li>Schedule compression increases effort in proportion to fourth power</li> <li>Expanding the schedule gives extreme saving in effort</li> <li>all of the above</li> <li>Correct Answer: 4</li> </ol>
500	ensures that a set procedure is followed to make any changes to the software



c)	<ol> <li>Configuration Identification</li> <li>Configuration Control</li> <li>Baselining</li> <li>all of the above</li> <li>Correct Answer: 2</li> </ol>
a) b) c)	Configuration Management is  1. framework activity  2. umbrella activity  3. one time activity  4. None of the above  Correct Answer: 3
a)	Your Answer: The Software Life Cycle covers activities from  1. Feasibility Study to Installation  2. Requirements Phase to Testing  3. Requirements Phase to Maintenance  4. Project Initiation to Software Retirement  Correct Answer: 4
a)	<ol> <li>The Software Development Life Cycle covers activities from</li> <li>Feasibility Study to Installation</li> <li>Requirements Phase to Testing</li> <li>Requirements Phase to Maintenance</li> <li>Project Initiation to Software Retirement</li> <li>Correct Answer: 2</li> </ol>
a)	Which of the following activities is not considered as "Umbrella Activity"  1. S/W Quality assurance  2. Software Design  3. S/W configuration management  4. S/W Project Monitoring & Control  Correct Answer: 2
refe a) b) c)	Any activity designed to keep programs in working condition, error free, and up-to-date, is rred to as  1. maintenance 2. testing 3. debugging 4. coding Correct Answer: 1
507. a) b) c) d) e)	Checklists, grid charts, and decision tables are all tools used in the step  1. preliminary investigation  2. systems analysis  3. systems development  4. systems implementation  Correct Answer: 2

508. Prototype may be used for

a) 1. Risk Reduction



- b) 2. Requirements Elicitation
- c) 3. User Interface Design
- d) 4. all of the above
- e) Correct Answer: 4

509. Which of the followinfg is not true about Component Assembly Model

- a) 1. It is similar to the Spiral Model
- b) 2. The technical framework for this model is provided by object technologies
- c) 3. Candiate classes are extracted from class library or developed
- d) 4. Its productivity is low
- e) Correct Answer: 4

510. During Requirements Phase recording interface requirements of a software system does not include which of the following interfaces

- a) 1. User Interfaces
- b) 2. Software Interfaces
- c) 3. Hardware Interfaces
- d) 4. Module Interfaces
- e) Correct Answer: 4

511. E-R diagrams are used in

- a) 1. Database design
- b) 2. Data Dictionary compilation
- c) 3. Architechtural design
- d) 4. Functional Design
- e) Correct Answer: 1

512. The flow of data within a system is described by a \_\_\_\_\_

- a) 1. data flow diagram
- b) 2. top-down analysis
- c) 3. system flowchart
- d) 4. decision table
- e) Correct Answer: 1

513. A system developed to give end users a concrete impression of the system capabilities is called

- a) 1. Semantics
- b) 2. model
- c) 3. prototype
- d) 4. abstraction
- e) Correct Answer: 3

514. Notations used to specify the external characteristics, architectural structure, and processing details of a software system include I. Data Flow Diagrams II. HIPO diagrams III. Structure Charts

- a) 1. I and II Only
- b) 2. III Only
- c) 3. I, II and III
- d) 4. None of the above
- e) Correct Answer: 3



a) b) c)	<ol> <li>Formal specification techniques are based on</li> <li>set theory</li> <li>logic</li> <li>sequence</li> <li>all of the above</li> <li>Correct Answer: 4</li> </ol>
of a) b) c)	<ol> <li>Using the name of a sequence of instructions in place of the sequence of instructions is an example</li> <li>Procedural Abstraction</li> <li>Data Abstraction</li> <li>Control Abstraction</li> <li>None of the above</li> <li>Correct Answer: 1</li> </ol>
a) b) c)	<ul> <li>7. Providing a logical reference to the data object without concern for the underlying representation is</li> <li>1. Procedural Abstraction</li> <li>2. Data Abstraction</li> <li>3. Control Abstraction</li> <li>4. None of the above</li> <li>Correct Answer: 2</li> </ul>
a)	<ol> <li>A way of indicating the desired effect without establishing the actual mechanism</li> <li>Procedural Abstraction</li> <li>Data Abstraction</li> <li>Control Abstraction</li> <li>None of the above</li> <li>Correct Answer: 3</li> </ol>
a) b) c)	<ol> <li>Designers should aim to produce strongly and weakly designs</li> <li>coupled, functional</li> <li>maintainable, cohesive</li> <li>cohesive, coupled</li> <li>coupled, cohesive</li> <li>Correct Answer: 3</li> </ol>
a) b) c)	

- 521. The strength of relationship between which of the following elements of a module is examined to evaluate module cohesion
- a) 1. function declarations, function definations& calls
- b) 2. variable declarations

c) 3. data definitions



- d) 4. all of the above
- e) Correct Answer: 4

522.. A module whose all elements exhibit relationship which involves both data and control flow is said to be \_\_\_\_\_ cohesive

- a) 1. Sequentially
- b) 2. Communicationally
- c) 3. Temporally
- d) 4. Procedurally
- e) Correct Answer: 1

523. The afferent branch of the DFD ends at the

- a) 1. Most Abstract Input
- b) 2. Most Abstract Output
- c) 3. middle of the central transform
- d) 4. all of the above
- e) Correct Answer: 1

524. Which of the following is not true about a flow chart?

- a) 1. It shows the flow of control of a program
- b) 2. It is a tool for detailed design
- c) 3. Data interchange is not represented
- d) 4. It clearly separates various modules of the software
- e) Correct Answer: 4

525.I. Object-oriented software development creates better programs but is less efficient to use II. Object-oriented software development is more efficient than traditional methods. III. OOP is a process that organizes a program into objects that contain both data and the processing operations necessary to perform a task

- a) 1. I and II are correct
- b) 2. II and III are correct
- c) 3. I and III are correct
- d) 4. I. II and III are correct
- e) Correct Answer: 3

526. Typographical errors and/or incorrect use of the programming language is referred to as

- a) 1. logic errors
- b) 2. syntax errors
- c) 3. run time errors
- d) 4. A bug
- e) Correct Answer: 2

527. The if-then-else construct is an example of the

- a) 1. sequencing
- b) 2. selection
- c) 3. iteration
- d) 4. all of the above
- e) Correct Answer: 2



10 900-1-2016
<ul> <li>528. Proper program layout by proper usage of proper use of indentation, blank spaces, blank lines, parentheses improves</li> <li>a) 1. Effeciency of the program</li> <li>b) 2. size of the program</li> <li>c) 3. maintainibility of the program</li> <li>d) 4. reliability of the program</li> <li>e) Correct Answer: 3</li> </ul>
<ul> <li>529 Static verification &amp; validation is applied to</li> <li>a) 1. SRS</li> <li>b) 2. Design</li> <li>c) 3. Code</li> <li>d) 4. all of the above</li> <li>e) Correct Answer: 4</li> </ul>
530. Static testing involves a) 1. Code Analysis b) 2. Structural Analysis c) 3. Data Flow Analysis d) 4. all of the above e) Correct Answer: 4
<ul> <li>531. Statistical Testing is used for</li> <li>a) 1. For statistical softwares only</li> <li>b) 2. Only uncovering defects</li> <li>c) 3. Reliability estimation</li> <li>d) 4. effeciency estimation</li> <li>e) Correct Answer: 3</li> </ul>
<ul> <li>532. Which of the following is NOT true about software testing</li> <li>a) 1. It follows a bottom up approach</li> <li>b) 2. Testing is planned after the coding phase</li> <li>c) 3. Complete testing is not possible</li> <li>d) 4. Testing only establishes presence of defects</li> <li>e) Correct Answer: 2</li> </ul>
<ul> <li>533. Black box testing is more useful in locating</li> <li>a) 1. Functional Errors</li> <li>b) 2. Performance Errors</li> <li>c) 3. Interface Errors</li> <li>d) 4. All of these options</li> <li>Correct Answer: 4</li> </ul>
534. Testing of software falls after stage. a) 1. Designing b) 2. Implementation c) 3. Deployment d) 4. Coding Correct Answer: 4

535. Testing strategies can be \_\_\_\_\_.

1. Top – down testing, Bottom – up testing



2. Thread testing, Stress testing 3. Back – to – back testing 4. all of above **Correct Answer: 4** 536. exercises the system beyond its maximum design load a) 1. Thread testing b) 2. Stress Testing c) 3. Back to back testing d) 4. all of the above e) Correct Answer: 2 537. Presenting the same tests to different versions of the system and compare outputs is called a) 1. Thread testing b) 2. Stress Testing c) 3. Back to back testing d) 4. all of the above e) Correct Answer: 3 538. Testing done with real data is called \_\_\_\_\_\_. a) 1. Data testing b) 2. Unified testing c) 3. Alpha testing d) 4. Beta testing Correct Answer: 4 539. The following are the testing strategies except a) 1. Top-down testing b) 2. Thread testing c) 3. Stress testing d) 4. Verification testing Correct Answer: 3 540. Changes made to the software to accommodate changes to its environment is called 1. perfective maintainence c) 3. adaptive maintainence 4. corrective maintainence e) Correct Answer: 3

- b) 2. regressive maintainence

541. Changes made to the software to extend it beyond its original functionality is called

- a) 1. perfective maintainence
- b) 2. regressive maintainence
- c) 3. adaptive maintainence
- 4. corrective maintainence
- Correct Answer: 1

542. Major changes made to software after long periods is also called software reengineering or

- a) 1. perfective maintainence
- b) 2. regressive maintainence
- 3. adaptive maintainence c)
- d) 4. corrective maintainence



543. Which of	the follov	ving is not a	a part of	Project	Plan?
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- a) 1. Risk Management Plan
- b) 2. Personnel Plan
- c) 3. Project Montoring Plan
- d) 4. Software Architechture Planning
- e) Correct Answer: 4

# 544. An example of an Empirical Software estimation technique is

- a) 1. COCOMO
- b) 2. FPA
- c) 3. Delphi
- d) 4. Halstead's Software Science
- e) Correct Answer: 3

# 545. The Lines of Code (LOC) size do not include

- a) 1. Compiler Directives
- b) 2. Declarations
- c) 3. Comments
- d) 4. all of the above
- e) Correct Answer: 3

546. In COCOMO terminology a project with software being strongly coupled to complex hardware & stringent regulations on operating procedures is categorised as

- a) 1. Organic
- b) 2. Semidetached
- c) 3. Embedded
- d) 4. Application
- e) Correct Answer: 3

547. The value of COCOMO cost driver attribute for lower than average Reliability requirement will be

- a) 1. Greater than 1
- b) 2. Equal to 1
- c) 3. Less than 1
- d) 4. None of these
- e) Correct Answer: 3

# 548. The crtitcal path of PERT/CPM chart cannot be

- a) 1. the path with the longest duration
- b) 2. more than one unique path
- c) 3. path on which any delays are allowed
- d) 4. path with same earliest and latest starts for all activites
- e) Correct Answer: 3

549. \_\_\_\_ and \_\_\_\_ are graphical notations which are used to illustrate the project schedule.

- a) 1. Bar chart and DFD
- b) 2. ERD and Bar chart
- c) 3. Class diagram and activity networks
- d) 4. Bar char and activity networks



550. The minimum time required to finish the project can be estimated by considering the \_\_\_\_\_ path in the activity graph

- a) 1. Shortest
- b) 2. Longest
- c) 3. Average
- d) 4. SPT
- e) Correct Answer: 2

# 551. PERT/CPM cannot be used for

- a) 1. Scheduling of projects
- b) 2. Monitoring & Control of projects
- c) 3. Optimising Resource Utilization
- d) 4. Quality control of products
- e) Correct Answer: 4

# 552. Which of the following is true as per Putnam model

- a) 1. Staffing Pattern peaks at Coding & Unit testing
- b) 2. Schedule compression increases effort in proportion to fourth power
- c) 3. Expanding the schedule gives extreme saving in effort
- d) 4. all of the above
- e) Correct Answer: 4

# 553. Risk of unrealistic estimates & schedules can be overcome by

- a) 1. Using objective methods of estimation rather than judgemental methods
- b) 2. Developing a culture of software reuse
- c) 3. Performing multisource estimations
- d) 4. all of the above
- e) Correct Answer: 4

# 554. Configuration Management is

- a) 1. framework activity
- b) 2. umbrella activity
- c) 3. one time activity
- d) 4. None of the above
- e) Correct Answer: 3

# 555.. Repeatable level as per CMM model is

- a) 1. Level 1
- b) 2. Level 2
- c) 3. Level 3
- d) 4. Level 4
- e) Correct Answer: 2

556. The collection of computer programs, procedures , rules and associated document and data is called

\_\_\_\_\_

- a) 1. Software
- b) 2. Hardware
- c) 3. Both
- d) 4. None

# 557. A context diagram contain

- a) 1. Only one process
- b) 2. More than one process
- c) 3. At least one process
- d) 4. None
- e) Correct Answer: 1

# 558. The spiral model is both suitable for

- a) 1. Development type projects
- b) 2. Enhancement type project
- c) 3. Both
- d) 4. None
- e) Correct Answer: 3

## 559. CASE is expanded as

- a) 1. Computer Analysis Software Engineering
- b) 2. Computer Aided Software Engineering
- c) 3. Computer Aided System Engineering
- d) 4. Computer Analysis System Engineering
- e) Correct Answer: 2

# 560. Three major factor of software engineering are

- a) 1. Cost, Correctness, Reliability
- b) 2. Cost, Schedule, Reliability
- c) 3. Cost , Quality , Correctness
- d) 4. Cost , Portability , Reliability
- e) Correct Answer: 2

# 561.. Data flow can take place between

- a) Process to Process b) File to File
- c) Process to File d) External Entity to Process
- a) 1. a,b,c
- b) 2. b,c,d
- c) 3. a,c, d
- d) 4. a,b, d
- e) Correct Answer: 3

# 562. Match the level testing can work on

- 1) Acceptance Testing 2) System Testing 3) Integration Testing 4) Unit Testing
- a) Client Needs b) Requirements c) Design d)Code
- a) 1. 1-a, 2-b, 3-c, 4-d
- b) 2. 1-d, 2-b, 3-c, 4-a
- c) 3. 1-a, 2-b, 3-d, 4-c
- d) 4. 1-a, 2-c, 3-b, 4-d
- e) Correct Answer: 1

# 563. The first step in the project planning is:

A: Size of the product

B: Select team organizational mode

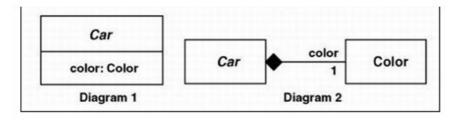


C: Determine the Project constraints

#### D: Establish objectives and scope

564.

A:



1:An aggregation, 2: A composition.

B:1:An attribute, 2: An aggregation.

C:1:An aggregation, 2: An attribute.

D:1:An attribute. 2: A composition.

565. Phase containment of errors means.

A: Detect errors to the closest point of errors.

B: Stop errors during software projects deployment.

C: Stop errors during software projects coding

D: None of the above.

566. The most commonly used model in today's development is

A: Waterfall model

B: Spiral model

C: Iterative waterfall model

D: None of the above.

567. What is "Customer must have at least a Pentium machine to access this software" in context of Software Requirements,

# A: Assumption

**B**: Objective

C: Business Problem

D: All of the above

568. For a Leave Application System, an "Employee" can use the system to request for leaves and a "Manager can approve/reject the leaves. The data will be stored within a "Leave database" as part of this system. In this scenario, identify the valid actors from the following for this system.

(i)Employee

(ii)Manager

(iii)Leave Database

(iv)Leave Application System

Choice A: None of the above

Choice B: i, ii

Choice C: iii, iv

Choice D: All of the above

661. A timing constraint placed on the system or the use of a specific language during development, is an example of

A: Functional requirements

# **B:** Non functional requirements

C: Requirements definition

D: None of the above

What is a Requirement definition?

A: What software provides.

**B:** Requirements in SRS C: What customer wants? D: All of the above 662. Which of the following is a tool in design phase? A: Abstraction B: Refinement C: Information hiding D: All the above 661. The data flow diagram A: Depicts relationships between data objects depicts relationships between data objects B: Depicts functions that transform the data flow C: Indicates how data are transformed by the system D: Both b and c 662. An approved feasibility study is a deliverable out of A: Systems design **B: Preliminary investigation** C: Systems development D: Systems analysis 661. \_\_\_\_\_ provides the maximum number of test cases that will be required to guarantee that every statement in program has been executed at least once. A: Independent Program paths **B: Cyclomatic complexity** C: Graph Matrices D: None of the above 662. Content testing uncovers A: Syntactic errors **B:** Semantic errors C: Structural errors D: All of the above 663. Which of these are standards for assessing software processes? A: SEI R **B: SPICE** C: ISO 9001 D: Both b and c 664. Methods of Project Monitoring are

A: time sheet

B: Earned value method

C: Design Constraints

D: Both a & b

666. Risk projection attempts to rate each risk in two ways

A: Likelihood and cost

**B:** Likelihood and impact

C: Likelihood and consequences

D: Likelihood and exposure



667. Effective risk management plan needs to address which of these issues?

A: risk avoidance

B: risk monitoring

C: contingency planning

D: all of the above

668. To quantify a risk we need to do the following

A: Determine the possibility of risk happening

B: Determine consequences of the problem associated with that risk.

C: Both a and b.

D: None of the above.

669. Change control process is done in a software project during

670.A: requirements

671. Deliverable for a software Project is

A: Source Code

**B:** Design Documents

C: Requirement Documents and Test Plans

D: All of the above

672. Scoping is done during,

A: Proposal Stage

**B:** Requirements gathering stage

C: Design Stage

D: Coding Stage

673. A software engineer is measuring the quality of a software system. He is concerned with the 'reliability' and the "validity' of his measurements. Which of the following is true?

A: Reliability refers to the extent to which the measurement represents the actual quality of the system and validity refers to the consistency of the quality measurements

B: Reliability refers to the consistency of her quality measurements and validity refers to the extent to which the measurement represents the actual quality of the system.

C: Reliability refers to the accuracy of her quality measurements and validity refers to the extent to which the measurement follows a quality standard.

D: Reliability refers to the concurrency of her quality measurements and validity refers to the extent to which the measurements are consistent with established norms.

674. Quality attributes are the overall factors that affect

A: run-time behavior

B: system design

C: user experience

D: All of the above

675. Which of the following is reason of project failure?

A: finite resources

B: inaccurate estimates of cost and time

C: others are competing to do the job cheaper and faster

D: none of the above



A: correctness, robustness, efficiency, flexibility, understandable B: correctness, robustness, efficiency, flexibility, reusability C: flexibility, correctness, robustness, efficiency, standard D: flexibility, correctness, robustness, efficiency, security 677. Testing is a A: process of executing a program with intent of finding an error B: process of removing error 678. C: process of testing software 679. D: all of the above 680. Black box testing checks the following errors A: incorrect function B: Interface errors C: Both a & b D: None of the above 681. A method of estimating the amount of functionality required for a project is A: WBS Estimation **B: UCP Estimation** C: FP Estimation D: COCOMO estimation 682. Scheduling begins with \_\_\_\_\_ A: Risk identification **B: Process decomposition** C: FP Estimation D: COCOM0 estimation 683. Aggregation represents A: is a relationship 684. B: part\_of relationship 685.C: composed of relationship D: None of above 686. Modules X and Y operate on the same input and output data. The cohesion is said to be: A: Sequential **B: Communicational** C: Procedural D: Logical 687. Estimates are made in a project primarily on A: size B: Cost

C: Both a and b.

D: None of the above

688. SPMP document is made at the end of

A: project planning

B: project monitoring

C: project control

D: None of the above



1. preliminary investigation

3. systems development

2. systems analysis

689. While gathering the requirements on OO way (using RUP UML), the very first thing we should do it 690. A: Start gathering functional requirements 691. B: List down all the Users of the System (called as Actors) C: Start gathering non-functional requirements D: Create Test plan 692. What is the solution to "Yes-But Syndrome" in requirements gathering? A: Improve technical skills B: Seek customer feedback early C: Learn a tool for requirements D: None of the above 693. Which of the following statements is true regarding scenarios? A: Scenarios are instances of a use case. B: Scenarios are generalizations of many use cases. C: A use case is an instance of a scenario. D: None of the above 694. Which of the following is true about a Build? A: A Build represents an operational version of a system or a part of the system that demonstrates a subset of the capabilities provided in the final product. B: A Build constitutes an integral part of the iterative development lifecycle and provides review points. C: Each Build is placed under configuration control in case there is a need to roll back to an earlier version when added functionality causes breakages or when there is otherwise some form of compromised Build integrity. D: All of the above 695. Reliability in a software system can be achieved using the following strategies, EXCEPT 1. Fault avoidance 2. Fault tolerance 3. Fault detection 4. Fault rectification **Correct Answer: 3** 696. An approved feasibility study is a deliverable out of 1. Systems design 2. Preliminary investigation 3. Systems development 4. Systems analysis **Correct Answer: 2** 697. Any activity designed to keep programs in working condition, error free, and up-to-date, is referred to as \_\_\_ 1. maintenance 2. testing 3. debugging 4. coding **Correct Answer: 1** 698. Checklists, grid charts, and decision tables are all tools used in the step



4. Requirement definition

4. systems implement Correct Answer: 2	ntation		
1. Analysis 2. Design 3. Testing 4. Implementation Correct Answer: 3	phase, the application is v	verified against the requirements	
700. Prototype may be u  1. Risk Reduction  2. Requirements Elic  3. User Interface Des  4. all of the above  Correct Answer: 4	itation		
701. During the acquired and tested 1. design 2. development 3. implementation 4. maintenance Correct Answer: 3	phase of the system	is life cycle, the new hardware and	software are
702. DFD gives idea abo 1. processes, decisio 2. control, data 3. logic, control 4. data, control Correct Answer: 4		owchart gives idea of the flow of _	
1. Semantics	n p Diagram	crete impression of the system cap	oabilities is called
<ol> <li>prototype</li> <li>abstraction</li> <li>Correct Answer: 3</li> <li>705. The requirement end</li> <li>Feasibility study</li> <li>Requirement anal</li> </ol>		ne following stages, Except	
<ol> <li>all of the above Correct Answer: 3</li> <li>A system develope</li> <li>Semantics</li> <li>model</li> <li>prototype</li> <li>abstraction</li> <li>Correct Answer: 3</li> <li>The requirement end</li> <li>Feasibility study</li> </ol>	d to give end users a cond		oabilities is ca



706. Planning the solution to a programming problem using a structured technique is called program

- 1. coding
- 2. compiling
- 3. moduling
- 4. design

**Correct Answer: 4** 

707. Conception & planning out of externally observable characteristics of a software is called

- 1. External Design
- 2. User Interface Design
- 3. Both a and b options
- 4. None of the above

**Correct Answer: 3** 

708. The afferent branch of the DFD ends at the

- 1. Most Abstract Input
- 2. Most Abstract Output
- 3. middle of the central transform
- 4. all of the above

**Correct Answer: 1** 

709. Static verification of code is not likely to reveal

- 1. logic errors
- 2. syntax errors
- 3. performance errors
- 4. coding standard violations

**Correct Answer: 3** 

710. Which of the following is NOT true with regard to Testing & Debugging

- 1. Testing includes debugging
- 2. Debugging includes retesting
- 3. Testing only establishes presence of defects
- 4. Debugging repairs the program defects

**Correct Answer: 1** 

711. Which factor among the follwing has least effect on the testability of a software?

- 1. Decomposibility
- 2. Effeciency
- 3. Understandability
- 4. Observability

**Correct Answer: 2** 

712. Identification of inputs which cause anomalous behavior in the outputs indicating the existence of defects is

- 1. Static Testing
- 2. White Box Testing
- 3. Black Box Testing
- 4. Interface testing

**Correct Answer: 3** 

713. Purely black box testing would be used at which of the following levels?

1. Unit testing



- 2. Module testing
- 3. Integration Testing
- 4. Acceptance Testing

#### 714. A Test case includes

- 1. Input
- 2. Expected output
- 3. information of function under test
- 4. All of these options

**Correct Answer: 4** 

715. In unit testing which of the following is the strongest testing strategy?

- 1. Statement coverage
- 2. Branch Coverage
- 3. Condition Coverage
- 4. Path coverage

**Correct Answer: 4** 

716. Selection of test paths according to defination& usage of different variables in the program is called

- 1. Path coverage testing
- 2. Condition Coverage testing
- 3. Data Flow Testing
- 4. Branch Coverage Testing

**Correct Answer: 3** 

717. exercises the system beyond its maximum design load

- 1. Thread testing
- 2. Stress Testing
- 3. Back to back testing
- 4. all of the above

**Correct Answer: 2** 

718. Compared to small team projects large team projects are

- 1. more sensitive to programmer ability
- 2. less sensitive to programmer ability
- 3. not sensitive to programmer ability
- 4. None of these

**Correct Answer: 2** 

719. COCOMO is categorizes as a \_\_\_\_\_estimation technique

- 1. Heuristic
- 2. Empirical
- 3. Analytical
- 4. None of the above

**Correct Answer: 1** 

720. In COCOMO terminology a project with software being strongly coupled to complex hardware & stringent regulations on operating procedures is categorised as

- 1. Organic
- 2. Semidetached
- 3. Embedded



# 4. Application

#### **Correct Answer: 3**

721. Which version of COCOMO develops estimates for large projects as sum of estimates of its various subsystems by considering the differences in the complexities of its various subsytems

- 1. Basic COCOMO
- 2. Intermediate COCOMO
- 3. Complete COCOMO
- 4. None of the above

**Correct Answer: 3** 

#### 722. Which of the following is true as per Putnam model

- 1. Staffing Pattern peaks at Coding & Unit testing
- 2. Schedule compression increases effort in proportion to fourth power
- 3. Expanding the schedule gives extreme saving in effort
- 4. all of the above

**Correct Answer: 4** 

#### 723. Risk Assesment Table is based on categorization by

- 1. Risk Components
- 2. Risk Impact
- 3. Both a and b options
- 4. None of the above

**Correct Answer: 3** 

#### 724. Risks arising out of frequent change requests are best mitigated by

- 1. User characterization
- 2. Strong SCM
- 3. Multisource estimations
- 4. Prescheduling key personnel

**Correct Answer: 2** 

#### 725. Requirement phase is usually done by

- 1. System Analyst
- 2. System Administrator
- 3. System Engineer
- 4. All

**Correct Answer: 1** 

#### 726. Productivity can measure from the relationship

- 1. Productivity=KLOC/person-month
- 2. Productivity=KLOC/defects
- 3. Productivity=KLOC/LOC
- 4. Productivity=KLOC\*person-month

**Correct Answer: 1** 

# 727. The goal of coding is

- 1. To reduce the cost of testing
- 2. To reduce the cost of maintenance
- 3. Both a & b
- 4. None



#### 728. CASE is expanded as

- 1. Computer Analysis Software Engineering
- 2. Computer Aided Software Engineering
- 3. Computer Aided System Engineering
- 4. Computer Analysis System Engineering

**Correct Answer: 2** 

#### 729. Structural approach is also known as

- 1. Glass box testing
- 2. Black box testing
- 3. Input box testing
- 4. Output box testing

#### **Correct Answer: 1**

Your Answer:

730. Three major factor of software engineering are

- 1. Cost, Correctness, Reliability
- 2. Cost, Schedule, Reliability
- 3. Cost, Quality, Correctness
- 4. Cost, Portability, Reliability

**Correct Answer: 2** 

731.. Ability of a software to perform stated function under stated condition for a stated period of time

- 1. Effeciency
- 2. Robustness
- 3. Reliability
- 4. Correctness

**Correct Answer: 3** 

#### 732. The Software Life Cycle covers activities from

- 1. Feasibility Study to Installation
- 2. Requirements Phase to Testing
- 3. Requirements Phase to Maintenance
- 4. Project Initiation to Software Retirement

**Correct Answer: 4** 

#### 733. An approved feasibility study is a deliverable out of

- 1. Systems design
- 2. Preliminary investigation
- 3. Systems development
- 4. Systems analysis

**Correct Answer: 2** 

734. The goal of \_\_\_\_\_\_ is to obtain a clear understanding of the system and its shortcomings and to determine opportunities for improvement

- 1. Feasibility study
- 2. systems analysis
- 3. systems definition
- 4. systems study



735. The SDLC Model most suitable for small projects with unclear requirements is but not many technical risks is

- 1. Spiral Model
- 2. Incremental Model
- 3. Waterfall Model
- 4. Prototyping Model

**Correct Answer: 4** 

736. Prototype may be used for

- 1. Risk Reduction
- 2. Requirements Elicitation
- 3. User Interface Design
- 4. all of the above

**Correct Answer: 4** 

- 737. uses powerful development software and small, highly trained teams of programmers.
  - 1. Prototyping
  - 2. RAD
  - 3. Coding
  - 4. Modeling

**Correct Answer: 2** 

738. Example of a Semantic Data model is

- 1. data flow diagram
- 2. Context Diagram
- 3. Entity Relationship Diagram
- 4. all of the above

**Correct Answer: 3** 

739. Formal specification techniques are based on

- 1. set theory
- 2. logic
- 3. sequence
- 4. all of the above

**Correct Answer: 4** 

740.. Formal specification language consists of

- 1. syntax
- 2. semantics
- 3. set of relations
- 4. all of the above

**Correct Answer: 4** 

741. Planning the solution to a programming problem using a structured technique is called program

- 1. coding
- 2. compiling
- 3. moduling
- 4. design



742 The number & complexity of interconnections between two modules is an indicator of 1. Modularity
2. Cohesion
3. Coupling
4. Abstraction
Correct Answer : 3
743. Among the following types which is the most undesirable form of coupling
1. Stamp Coupling
2. Common Coupling
3. Content Coupling
4. Control Coupling
Correct Answer : 4
744. A module whose all elements exhibit relationship which involves both data and control flow is said
to be cohesive
1. Sequentially
2. Communicationally
3. Temporally
4. Procedurally  Correct Answer: 1
Correct Answer : 1
745. Function oriented design process consists of
1. Data Flow Design
2. Structural decomposition
3. Detailed Design
4. all of the above
Correct Answer : 4
746. Which of the following would NOT appear as a symbol on a flowchart?
1. data type
2. decision
3. input/output
4. processing
Correct Answer : 1
747 involves modeling a system as a set of interacting functional units.
1. Object oriented decomposition
2. Procedural decomposition
3. Functional decomposition
4. None of the above
Correct Answer : 3
748. All of the following are control structures used in structured programming, EXCEPT
1. iteration

**Correct Answer: 4** 

selection
 sequence
 goto



749. Proper program layout by proper usage of proper use of indentation, blank spaces, blank lines, parentheses improves

- 1. Effeciency of the program
- 2. size of the program
- 3. maintainibility of the program
- 4. reliability of the program

**Correct Answer: 3** 

750. Statistical Testing is used for

- 1. For statistical softwares only
- 2. Only uncovering defects
- 3. Reliability estimation
- 4. effeciency estimation

**Correct Answer: 3** 

751. In \_\_\_\_\_\_, the tester can analyze the code and use knowledge about the structure of a component to derive test data

- 1. Black box
- 2. White box
- 3. Stress testing
- 4. None of the above

**Correct Answer: 2** 

#### 752. Test Data includes

- 1. Set of inputs
- 2. set of expected outputs
- 3. information of function under test
- 4. All of these options

**Correct Answer: 1** 

753. A driver is a dummy verion of the \_\_\_\_\_ module of the module under testing

- 1. superordinate
- 2. subordinate
- 3. coordinate
- 4. All of the above

**Correct Answer: 1** 

754. Changes made to the software to accommodate changes to its environment is called

- 1. perfective maintainence
- 2. regressive maintainence
- 3. adaptive maintainence
- 4. corrective maintainence

**Correct Answer: 3** 

755. Compared to small team projects large team projects are

- 1. more sensitive to programmer ability
- 2. less sensitive to programmer ability
- 3. not sensitive to programmer ability
- 4. None of these

**Correct Answer: 2** 



756. Which of the following is true for two projects of same category with the same estimated LOC size and using COCOMO for estimation A) The initial effort estimate for both projects will be same as both have same LOC B) The Effort Adjustment Factor will always be the same for both projects C) The final effort estimate will always be the same for both projects

- 1. Only A is true.
- 2. Only A & B are true
- 3. Only C is true
- 4. Neither A, B or C are true.

**Correct Answer: 1** 

757. The crtitcal path of PERT/CPM chart cannot be

- 1. the path with the longest duration
- 2. more than one unique path
- 3. path on which any delays are allowed
- 4. path with same earliest and latest starts for all activites

**Correct Answer: 3** 

758. What are the components of a thin client model in Client/Server architecture?

- 1. Client (Presentation) Server (Data Management, Application Processing)
- 2. Client (Application Processing) Server (Data Management)
- 3. Client (Data Management) –Server (Application Processing)
- 4. Client (Application Processing) Server- Client (Data Management)

759. Risks arising out of frequent change requests are best mitigated by

- 1. User characterization
- 2. Strong SCM
- 3. Multisource estimations
- 4. Prescheduling key personnel

**Correct Answer: 2** 

760. Risk of unrealistic estimates & schedules can be overcome by

- 1. Using objective methods of estimation rather than judgemental methods
- 2. Developing a culture of software reuse
- 3. Performing multisource estimations
- 4. all of the above

**Correct Answer: 4** 

761. Example of Software Configuration Items (SCI) is

- 1. SRS
- 2. Code
- 3. User manual
- 4. all of the above

**Correct Answer: 4** 

762. Software quality managers are responsible for \_\_\_\_\_.



- 1. Quality assurance
- 2. Quality planning
- 3. Quality control
- 4. All of the above

:

763. Requirement phase is usually done by

- 1. System Analyst
- 2. System Administrator
- 3. System Engineer
- 4. All

**Correct Answer: 1** 

764. Iterative method contains the feature of

- 1. Water fall method
- 2. Prototype method
- 3. Both
- 4. None

**Correct Answer: 2** 

765.. Which of following order is true in software engineering life cycle

- 1. SRS, Design, Coding, Testing
- 2. Design, Coding, Testing, SRS
- 3. SRS, Design, Testing, Coding
- 4. Coding, Testing SRS, Design

**Correct Answer: 1** 

766. Match the level testing can work on

- 1) Acceptance Testing 2) System Testing 3) Integration Testing 4) Unit Testing
- a) Client Needs b) Requirements c) Design d)Code
  - 1. 1-a, 2-b, 3-c, 4-d
  - 2. 1-d, 2-b, 3-c, 4-a
  - 3. 1-a, 2-b, 3-d, 4-c
  - 4. 1-a, 2-c, 3-b, 4-d

**Correct Answer: 1** 

:

767. Which software development model incorporates risk management?

- 1. Waterfall model
- 2. Spiral model
- 3. Incremental model
- 4. None of the above

768. Which is the most commonly used debugging approach?

- 1. Brute force
- 2. Back tracking
- 3. Cause elimination
- 4. None of the above

769. Four important characteristics of a software product are

1. dependability, usability, reliability, robustness



- 2. maintainability, dependability, efficiency, usability
- 3. Supportability, maintainability, visibility, rapidity
- 4. None of the above

	Enough time will be left at the end of the project to uncover errors that were made
	ause we rushed through the process. The moral is: Don't rush
	ugh it! is worth the effort. (Clue: both the blanks to be filled by
	the same word)
1.	coding
	design
	testing
4.	None of the above
771.	Who should perform the validation test?
	1. Software developer
	2. Software user
	3. a group of developers and users
	4. None of the above
772.	Find the activity, which is not part of version management
	1. controlled change
	2. storage management
	3. coding standard
	4. None of the above
773.	Testing
	1. instills guilt
	2. is punishment
	3. is to find errors
	4. None of the above
774.	Which is more important?
	1. product
	2. process
	3. quality
	4. None of the above
775	The sooner you begin, the longer it will take to get done.
//3.	1. coding
	-
	2. testing
	<ul><li>3. design</li><li>4. None of the above</li></ul>
	4. Notice of the above
776.	Doing what is said one would do, is the definition for
	1. reliability
	2. quality
	3. software plan
	4. none of the above



- 1. Requirements, Analysis, Test case design, Design
- 2. Requirements, Analysis, Design, Test case design
- 3. Requirements, Test case design, Analysis, Design
- 4. None of the above

#### 778. A software quality assurance activity that is performed by software engineers

- 1. coding
- 2. formal technical reviews
- 3. design
- 4. None of the above

# 779. In what manner, coding and testing are done

- 1. top-down
- 2. bottom-up
- 3. cross-sectional
- 4. adhoc

#### 780. Which of the following is generally not contained in a feasibility document

- 1. Problem descriptions
- 2. Project name
- 3. Feasible alternative solutions
- 4. data-flow diagrams

#### 781. The initiation of a systems investigation may result from

- 1. An analysis investigation
- 2. A manager's formal request
- 3. Scheduled system review
- 4. All of the above

# 782. Which of the following is not a factor in the failure of a systems development Project?

- 1. inadequate user involvement
- 2. failure of systems integration
- 3. size of the company
- 4. continuation of a project that should have been cancelled

# 783. "The probability of failure free operation of a computer program in a specified Environment for a specified time" is the definition for

- 1. quality
- 2. reliability
- 3. operability
- 4. None of the above

#### 784. The four icons used in building Data Flow Diagram are

- 1. Flow, Source, Store, Process
- 2. Flow, Process, Source, Store
- 3. Flow, Process, Source/Destination, Store
- 4. Source, Process, Destination, Store

#### 785. Which of the following is (are) not a tool for Application Prototyping?

- 1. Application generates
- 2. Third generation language
- 3. Screen generators



#### 4. Report generators

786. All of the following tools are used for process description except

- 1. Structured English
- 2. Decision tables
- 3. Pseudo code
- 4. Data Dictionaries

787. Which of the following activities does not belong to the Implementation phase of The SDLC?

- 1. File conversion
- 2. Program testing
- 3. User training
- 4. All of the above

788. Which of the following is not true of the conversion phase of the development life Cycle?

- 1. the user and systems personnel must work closely together
- 2. steps must be taken to phase out the old system
- 3. documentation should be emphasized
- 4. the non-machine components of the system should be considered

# 789. Benchmarking is used

- 1. To select computer systems
- 2. To maintain files is p-to-date condition
- 3. for application proto-typing
- 4. for system acceptance

790. Which is the first phase of the Waterfall software process model?

- 1. Design
- 2. Prototype
- 3. Testing
- 4. Requirement

791. What is the purpose of use cases in UML?

- 1. Requirements of capture
- 2. Define how the software system will be used
- 3. Describe what the user expects to do with the system
- 4. Make clear what the stakeholders needs are

#### 792. Please match the Spiral model sectors:

- X1: Objective setting
- X2: Risk assessment and reduction
- X3: Development and validation
- X4: Planning

#### With their correct characteristics:

- Y1: Risks are assessed and activities put in place to reduce the key risks
- Y2: Specific objectives for the phase are identified
- Y3: The project is reviewed and the next phase of the spiral is planned
- Y4: A development model for the system is chosen which any can be of The generic models



- 1. X1-Y3 X2-Y1 X3-Y2 X4-Y4
- 2. X1-Y2 X2-Y3 X3-Y4 X4-Y1
- 3. X1-Y2 X2-Y1 X3-Y4 X4-Y3
- 4. X1-Y3 X2-Y2 X3-Y1 X4-Y4

#### 793. Indicate what information is provided by Functional requirements?

- X1: The constraints on the services or functions offered by the system such as Timing constraints
- X2: How the system should behave in particular situation
- X3: The constraints on the development process, standards
- X4: How the system should react to particular inputs
- 1. X2, X4
- 2. X1, X2, X4
- 3. X1, X3
- 4. X2, X3, X4

#### 794. Function point is

- 1. A pointer to a function
- 2. A point where the function is written in a code
  - 3. A method of estimating the amount of functionality required for a program
- 4. A function named "point"

#### 795. A system version

- 1. Is an instance of a system deployed at the client side?
- 2. Is an instance of a system that differs in some way from other instances?
- 3. Should either include new functionalities or should be intended for a different Hardware platform
- 4. Is created to fix reported faults as part of development process

#### 796. What is synchronization control in configuration management?

- It governs which software engineer have the authority to access & modify a Particular configuration object
- 2. It helps to ensure that parallel changes performed by two different people don't Overwrite one another
- 3. It synchronizes two different system versions to form a single versions
- 4. It helps to synchronize the source code files to form deployable version

# 797. The currently known containment effectiveness of faults introduced during each Constructive phase of software development for a particular software product is Ratio of

- 1. (Actual project duration) to (estimated project duration)
- 2. (number of pre-release Defects) to (number of pre-release Defects) to (number of pre-release Defects + number of post release Defects)
- 3. (number of phase i errors) to (number of phase i errors + number of phase i defects)
- 4. (number of failure) to (Execution time)

#### 798. SRS is maintained in configuration environment as

- 1. Software design baseline
- 2. Software development baseline



- 3. Software artefacts
- 4. Software product baseline

799. Following is the SCM audit to	99.1	Folloy	ving	is	the	<b>SCM</b>	audit	too
------------------------------------	------	--------	------	----	-----	------------	-------	-----

- 1. Requirement metrics
- 2. PERT charts
- 3. Source Code
- 4. Design Document

800. Delphi method of cost estimation uses

- 1. Functional point analysis
- 2. SLOC expressed in KDSI
- 3. PERT model using effort calculations

4. Decomposition me	thod of cost estimation		
801. Validate that the fund	tions meet started requ	irements or not is calle	d as
1. Unit testing	2. System testing	3. Integration Testing	4. Acceptance Testing
Q.2) what do you mean by 1. White box testing	_	3. Top-down testing	4. Independent testing
802. Verification should be 1. Requirements 2. D	e performed for esign 3. Cod	de construction	4. All of the above
	sed to determine the 2. Consistency		he final software/program. 4. Quality
804. Quality control proced 1. Preventive costs above	dures are 2. Appraisal costs	3. Failure costs	4. None of the
805. Who should be involv 1. Customer above	ed in determined risk m 2. Management	=	4. All of the
806. Which of the followin 1. Process	-	ity? 3. Standard	4. Policy
807. The system design SD 1. Program and training	LC phase is immediately ng 2. Initiation	•	
808. Resource planning, au in	udit planning , estimation	n, scheduling are the so	me of the tasks carried out
1. Initiation phase phase	2. System design pha	ase 3. Defii	nition phase 4. Evaluation
809. System reviews and so	oftware testing are exan 2. Quality assurance		ts 4. None of the above
810  1. Registration	is done without execu 2. Unit	iting the code. 3. System	4. Static



1. Statement co	<ol> <li>Which of the following is not a white box testined.</li> <li>Statement coverage</li> <li>Decision/condition coverage</li> </ol>			? ce Partitioning ondition coverage	
812. Which of the fol 1. Create the so 3. Support mana	ftware v & v pl	an	2. Co	-	ment review of v & v eviews
813. A standard must	t be				
1. Measurable, A		critical	2. Smart, Measurable and Time-bound		
3. Measurable, A	Achievable and	Clear	4. Approved, Available and Attainable		
814. Which are the fo	our primary sta	ndards of ISO 9	9000?		
1. ISO 9000, ISO 3. ISO 9000, ISO	•	•	·		
815. Cost of quality in	ncludes				
1. Preventive, Co 3. Preventive, ap			<ol> <li>Preventive</li> <li>None of th</li> </ol>	e, detective & cont ne above	rol
816. AQL stands for? 1. Allowable qua 3. Acceptable qu	•		2. Allocated 4. Allowed q	•	
817. Quality assurance 1. Controlling quality defects			r quality 3. I	nspections	4. Removal of
818 1. DFD	_ is used to per 2. UML	form structure 3. COCOMO		I to document the ne above	result.
819. Reverse enginee	ering of data for	cuses on			
1. Database struabove	=		nta structures	3. Both 1 & 2	4. None of the
820. System Test will	not include				
1. Approach above	2. Risks	3. Susper	_ nsion and Resu	mption criteria	4. None of the
821. As series of defi	nable, repeatak	ole and measur	rable tasks lead	ding to useful resul	lt is called
1. Program	2. Pro	cess	3. Activity	4. Contro	oller
822. The first step in 1. Determine the 3. Establish the	e budget	2. Det		 oject constraints eam organizational	model
823. Which of the fol 1. Includes test 3. Implements a 4. Incorporates	cases for all cor Il requirements	mponents s in the analysi	2. Exhibits st s model	? crong coupling bety	ween its modules



824. Which of the fo	llowing characteristi	cs of a strong dei	gn?	
			4. All of the above	
-	which is not part of	<del>-</del>		
<ol> <li>Controlled ch</li> </ol>	iange	2. Sto	rage management	
3. Coding stand	ard 4. Creating	program code	5. None of the above	ve
<ol> <li>Reduces tech</li> <li>Increases deg</li> <li>Increases vul</li> </ol>	llowing is a disadvar inical know-how for gree of control nerability of strategi pendency on other o	future innovation c information	=	
827.If a linear proce	ss models all steps c	ome after finishii	ng of a step then that	model
1. Spiral	2. Prototype	3. Water fall	model 4. N	one of the above
828. Cyclomatic Com 1. White box	•		of the following testin 4. Ye	ng method? ellow box
829. Which of the fo 1. Motivation 4. Individual de	_	foundation for to ational developm		onflict management
830. Which of the fo 1. Good skills above	llowing is a key to ef 2. Good de	fective software esign		ent 4. None of the
			needs is known as 8. Requirements capto	
832. Translating the	algorithm into a pro	gramming langua	ge occurs at the	step of the
1. Debugging	2. Coding 3	s. Testing and Doo	cumentation 4. Al	lgorithm Development
_	nd implement databa s 2. Project manage		l writers 4. Database	e administrators
1. Feasibility ass	determ sessment ation	2. Opportuni	project should go for ty identification pecification	rward or not
			thealysis 4. Developn	step in the SDLC nent and Documentation
1. Are iterative	ftware process mod in nature ally produce throwa	2. Can easily		ct requirements changes

837. Which of the following is not a part of testing?



1. White box testing	2. Black box testing	3. Inner testing	4. Gorilla		
testing					
838. Quality assurance					
1. Focuses on removal of defect					
2. Is a set of planned and system	matic actions to provid	e confidence that a pro	duct or service will		
satisfy Given requirements for quali	tv				
3. Is to check the system for its					
4. None of the above	meeridee errors				
839 is the chain	of activities that dete	rmines the duration of	the project		
1. object points 2. LOC					
840. Debugging is a consequence of					
840. Debugging is a consequence of 1. An unsuccessful test	2. An error in design	— 3. A successful	test 4. A metric that		
Describes the degree to whic					
841. In object-orientation, polymorp	hism means				
1. There can be many objects in		<del></del>			
2. Methods can be changed in r	•				
3. Many ways can be instantiate	ed of a class				
4. Objects can implement the sa	ame method in many v	vays			
842. The spiral model of software de	evelopment				
1. Ends with the delivery of the	software product				
2. is more chaotic than the incr	emental model				
<ol><li>Includes project risks evaluat</li></ol>	ion during each iterati	on			
4. All of the above					
843. The objective of software proje	ct planning is to				
1. Convince the customer that a	project is feasible				
2. Enable a manager to make reasonable estimates of cost and schedule					
<ol><li>Make use of historical project</li></ol>					
4. Determine the probable pro	fit margin prior to bido	ling on a project			
844. Which of the following is not a	section in the standard	I for SQA plans recomm	nended by IEEE?		
_	eviews and audits	3. Test	4. Budget		
845. Which of the following tasks is	•	-			
1. Change control 2. R	Reporting	3. Statistical quality co	ontrol 4. Version		
control					
846. How many steps are in the prog	gram development life	cycle (PDLC)?			
1. 4 2. 5	=	, , ,			
0.47	· · · · · · · · · · · · · · · · · · ·		2		
1 Cohocian 2 Coupling	· ·		ŗ		
1. Cohesion 2. Coupling	3. Loop coupling	4. Loop conesion			
848. The purpose of requirement ph					
1. To freeze requirements		inderstand user needs			
<ol><li>To define the scope of testing</li></ol>	g 4. All c	of the above			



849. A modular design has	
1. High cohesion, low coupling a	nd high abstraction
2. High cohesion, low coupling a	nd low abstraction
3. Low cohesion, low coupling ar	nd high abstraction
4. High cohesion, high coupli	ng and high abstraction
850. The outcome of the analysis pha	se is
1. Sufficient understanding of th	ne problem to write a design specification.
2. Sufficient understanding of the	e problem to write a formal description of it.
3. Sufficient understanding of the	e problem to suggest a solution (or solutions)
4. Sufficient understanding of the	e problem to write a code specification.
851. Corrective maintenance is relate	
1. Making the system more func	
2. Correcting the fault that could	
3. Making the system work in ne	w environment
4. All of the above	
852. Testing is done with the objectiv	re of
1. Finding new errors in the soft	ware 2. Correcting errors in the software
3. Both 1 and 2	4. None of the above
	0 tests during 10 days of testing (Assume 10 tests
	estimate of the reliability of the software over the
Next week? (Assume 5 working days	·
1. 0.0275 2. 0.5987	3. <b>0.0769 4.</b> 0.9500
854. A requirements specification is:	
	e proposed software ought to do
2. A precise and mathematical li	ist of things that the proposed software ought to do
3. A formal list of things that the	proposed software must do
4. A list of software and hardwar	re resources needed for completing the proposed system
855. To achieve a good design, differe	ent modules should have
1. Weak cohesion and low coupl	
3. Strong cohesion and low coup	4. Strong cohesion and high coupling
856. Which of the following is the inp	ut to the feasibility study?
1. Outline description of the syst	zem 2. Set of preliminary business requirements
3. How the system is intended to	support business process
4. All of the above	
857. Assuming that the tests are repr	esentative of the operational situation, then calculate the
Reliability of a software system that h	nas had 10 failures in 200 test cases.
1. <b>0.95 2.</b> 0.9 3. 0.1	4. 1
858. A critical task is one with	
1. Minimum slack time	2. Maximum slack time
3. No slack time	4. None of the above



4. None of the above

1. Adopting SDLC configuration management	2. Adopt Continuous risk management
3. Both 1 and 2	4. Choice 2 only
860. Quality control	alaf dafaata kafa oo adaa aa
<ol> <li>Focuses on inspections, testing and remove</li> <li>Is to check the system for its interface erro</li> </ol>	ors
3. Is checking and reviewing work that has no 4. Is a set of planned and systematic actions to p	
Or service will satisfy given requirements for q	<del>-</del>
861. How maintainability can be achieved?	
1. Through Error recovery	
2. When the S/W process evolves to reflect of Or identified process improvements	changed organizational requirements
<ul><li>3. Both 1 and 2</li><li>4. None of the above</li></ul>	
862. Which testing methods are used by end-users	s who actually test software before they use it?
1. White Box testing	2. Alpha and Beta testing
3. Black box testing	4. Trial and Error testing
863. What do you mean by nonfunctional requirer	ments?
1. User requirements	
<ul><li>2. Requirements definition</li><li>3. A timing constraint placed on the system</li></ul>	or the use of a specific language during
Development	or the use of a specific language during
4. None of the above	
864. The project plan should be regularly revised of	during the project
1. Yes	2. No
3. It cannot be changed, it is to be followed	4. It is made only once at the start of project
865. A program's control flow structure indicates_	<del></del>
1. Correct program	
<ul><li>2. The sequence in which the program's inst</li><li>3. High-level language programming</li></ul>	ructions are executed
4. All of the above	
866. Bar charts and activity networks are graphica	Il notation which are used to illustrate the
1. Project Plan 2. Project dependen	
867. Which factor is not contributing to software of	crisis?
1. Larger problem sizes	2. Skill shortage
3. Low productivity improvements	4. None of the above
868. Spiral mode	
1. Is an example of exploratory programming	
2. Is characterized by the assessment of mar	nagement risk items



869. Cohesion is	
1. Measure of quality	
2. Concept related to testing	
3. Understandability	
·	thus on the sustant's source onto
4. Measure of closeness of the relationships be	etween the system's components
870. Which term defines the process of project com	pliance with policies and procedures?
1. Quality control 2. Quali	ty assurances
•	ty control management
,	,
871. The data items that are exchanged between the	
1. Design phase <b>2. DFDs</b> 3. ER Di	agram 4. Data Structures
Q.23) which of these terms apply to identify quality	standards and how to satisfy them?
1. Quality projections 2. Quality man	
planning	
072 Coffware engineering principles are based on	
872. Software engineering principles are based on _	
1. Error correction 2. Error prevention	3. Error detection 4. None of the above
873. Acceptance test plan is	
1. Most likely to arise from the requirements s	
<ol><li>Most likely to arise from the System integration</li></ol>	on
3. Both 1 and 2	
4. None of the above	
874. Visibility of design means	
1. Efficient design	2. Less complex design
3. Good quality, consistent document	4. None of above
3. Good quanty, consistent document	n none of above
875. Project quality management includes	
1. All activities of the performing organization	that determines policies and
Responsibilities of a project	
2. Performance quality control	
3. Error detection	
4. None of the above	
876. Important distinction between the spiral model	and other software process model is
1. Explicit consideration of planning next phase	
2. Explicit consideration of Validation	
3. Explicit consideration of Risk Assessment an	d Reduction
4. Explicit consideration of Objective setting	
877. Capability maturity model	
Gives description for software process	2. States what activities are necessary for
success	2. States what activities are necessary for
3. Describes how activities are to be performed	4. Compare essential difficulties of software
·	·
878. Validations is to check	
U/U. Valluations is to theth	



- 1. Whether we are building the product right product
  - 3. The methodology of software development
- 2. Whether we are building the right
- 4. The methodology of software testing

879. Which lifecycle model would you use for developing a commercial web site that requires About 8 months of effort from a team of 6 people?

- 1. Opportunistic
- 2. Waterfall
- **3.** Incremental
- 4. Spiral

880. Which of the following s/w development life cycle shows high amount of risk analysis?

- 1. Water fall model 2. **Spiral model**
- **3.** V-shaped model
- 4. Incremental model
- 881. Deliverables are usually milestones but milestones need not be deliverables
  - 1. True
- 2. False
- 3. May be true
- 4. None of the above
- 882. Design phase will usually be
  - 1. bottom-up
- 2. Top-down
- 3. Random
- 4. Center fringing
- 883. The execution of every possible test case is called as \_\_\_
  - 1. Static analysis 2. Dynamic testing 3. Structural testing 4. Exhaustive testing
- 884. Configuration Management is not related with
  - 1. Controlling changes to the source code
  - 2. Choice of hardware configuration for an application
  - 3. Controlling documentation for an application
  - 4. Maintaining versions of software
- 885. Which of the following statement is correct?
  - 1. The project schedule is usually represented a set of charts showing the work.
  - 2. The project schedule is usually represented as a set of charts showing the activities Dependencies and staff allocations
  - 3. The project schedule is usually represented as a set of charts showing the work Breakdown and activities dependencies
  - 4. The project schedule is usually represented as a set of charts showing the work Breakdown, activities dependencies and staff allocations
- 886. Which is true about regression testing?
  - 1. Regression testing is carried out if the system underline is an upgraded or corrected Version
  - 2. Regression testing checks that there is no side effect after changes
  - 3. Both 1 and 2
  - 4. None of the above
- 887. Which of the following is true about integration testing?
  - 1. Integration testing aims to find out the errors related to various module interfaces
  - 2. Integration testing is a kind of testing, which is carried out while constructing or integrating the System
  - Integration testing is a kind of testing, which is carried out after constructing or Integrating the system
  - 4. Both 1 & 2



- a. WM\_TIMER
- b. WM\_QUIT
- c. WM COMMAND
- d. None of these

Ans. D

# 889. Which of the following is not a resource?

- a. Bitmap
- b. Dialog box Template
- c. Html document
- d. None of these

Ans. D

#### 890. Which of the following the resource?

- 1. Bitmap
- 2. Html document
- 3. Dialog templates
- 4. All of the above.

#### 891. Which function is used to compare the regions?

- 1.EqualTo
- 2.EqualRgn
- 3.CompareRgn
- 4.CmpRgn

#### 892. Which of the following is non queed message?

- 1. WM\_COMMAND
- 2. WM\_QUIT
- 3. WM TIMER
- 4. All of the above

#### 893. Which function is used to convert white to black and black to white?

- 1. Convert
- 2. Invert
- 3. Insert
- 4. None of above

#### 894. Which API is used to copy and stretch the bitmap?

- 1. Bitblt
- 2. StretchBlt
- 3. Patblt
- 4. None of above
- 895. Which of the following is a resource?
- 1) Bitmap
- 2) Dialog box template
- 3) Html document
- 4) All of the above

# 896. By default polygon is?

- 1) dot-dash
- 2) Solid
- 3) Transparent
- 4) None of the above



```
897. _begin thread present in which header file?
1)winuser.h
2)window.h
3)process.h
4)none of the above
898. what function to stretch the bitmap is used?
1)strblt()
2)bitblt
3)stretchblt()
4)hbitmap
899. Which of the following not Virtual key?
    a.VK PREV
b.VK_NEXT
c.VK UP
d.None
900. Which of the following is non queed message?
1.WM_COMMAND
2.WM_QUIT
3.WM TIMER
4.All of the above
901. Which of the following is not a resource?
1.Bitmap
2. Dialogbox Template
3.Html document
4. None of these
902. Which function is used to convert white to black and black to white?
1.Convert
2.Invert
3.Insert
4. None of above
903. Which of the following not Virtual key?
 1.VK PREV
  2.VK NEXT
  3.VK_UP
  4.None
904. Which of the following is a resource?
1)bitmap
2) dialod box template
3)html document
```



# 4)all of the above

905. By default polygon is?  1)dot-dash  2)solid  3)transparent  4)none of the above
906. what function to stretch the bitmap is used?  1)strblt()  2)bitblt  3)stretchblt()  4)hbitmap
907. which of the following is the blocking function?  1)getmessage()  2)postquitmessage()  3)dispatchmessage()  4)translatemessage()  908. The outcome of the analysis phase is
<ol> <li>Sufficient understanding of the problem to write a design specification</li> <li>Sufficient understanding of the problem to write a formal description of it</li> <li>Sufficient understanding of the problem to suggest a solution (or solutions)</li> <li>Sufficient understanding of the problem to write a code specification</li> </ol>
909. A requirements specification is:
<ol> <li>A general list of things that the proposed software ought to do.</li> <li>A precise and mathematical list of things that the proposed software ought to do.</li> <li>A formal list of things that the proposed software must do.</li> <li>A list of software and hardware resources needed for completing the proposed system.</li> </ol>
949.To achieve a good design, different modules should have
<ol> <li>Weak cohesion and low coupling</li> <li>Weak cohesion and high coupling</li> <li>Strong cohesion and low coupling</li> <li>Strong cohesion and high coupling</li> </ol>
950. What do you mean by nonfunctional requirements?
<ol> <li>User requirements</li> <li>Requirements definition</li> <li>A timing constraint placed on the system or the use of a specific language during development.</li> <li>None of the above</li> </ol>
951.Spiral model

1. Is an example of Exploratory programming.



2. Is characterized by the assessment of management risk items.
3. Both 1 and 2
4. None of the above
952.
Cohesion is
1. Measure of quality
Concept related to testing
3. Understandability
4. Measure of closeness of the relationships between the system's components.
953. The data items that are exchanged between the different functions are represented as _
555. The data items that are exchanged between the different functions are represented as _
1. Design phase
2. DFDs
3. ER Diagram
4. Data Structures
OFC Important distinction between the spiral model and other software process model is
956. Important distinction between the spiral model and other software process model is
1. Explicit consideration of planning next phase
2. Explicit consideration of Validation
3. Explicit consideration of Risk Assessment and reduction
4. Explicit consideration of Objective setting
957. Which lifecycle model would you use for developing a commercial web site that requires about 8
months of effort from a team of 6 people?
1. Opportunistic
2. Waterfall
3. Incremental
4. Spiral
958. Which of the following software development life cycle shows high amount of risk analysis?
1. Water fall model
2. Spiral model
3. V – shaped model
4. Incremental model
959. Design phase will usually be
1. Bottom-up
2. Top-down
3. Random
4. Centre fringing
960. Which is the first phase of the Waterfall software process model?

1. Design



- 2. Prototype
- 3. Testing
- 4. Requirement



- 961. Indicate what information is provided by Functional requirements?
  - X1: The constraints on the services or functions offered by the system such as timing constraints.
  - X2: How the system should behave in particular situations.
  - X3: The constraints on the development process, standards.
  - X4: How the system should react to particular inputs.
- 1. X2, X4
- 2. X1, X2, X4
- 3. X1, X3
- 4. X2, X3, X4

962. Software engineering principles are based on . . .

- 1. Error correction
- 2. Error prevention
- 3. Error detection
- 4. None of the above

963. Which of the following are SDLC process models?

- 1. Waterfall
- 2. V-shape
- 3. Spiral
- 4. All of the above

964. Deployment of a system refers to

- 1. Activities performed in system testing
- 2. Implementing the design into executable codes
- 3. The transition of the system from its development phase to the operational phase.
- 4. None of the above

965. Please match the Spiral model sectors: (X-Y)

- X1: Objective setting
- X2: Risk assessment and reduction
- X3: Development and validation
- X4: Planning with their correct characteristics:
- Y1: Risks are assessed and activities put in place to reduce the key risks
- Y2: Specific objectives for the phase are identified
- Y3: The project is reviewed and the next phase of the spiral is planned
- Y4: A development model for the system is chosen which can be any of the generic models
- 1. X1-Y3, X2-Y1, X3-Y2 X4-Y4
- 2. X1-Y2, X2-Y3, X3-Y4 X4-Y1
- 3. X1-Y2, X2-Y1, X3-Y4 X4-Y3
- 4. X1-Y3, X2-Y2, X3-Y1 X4-Y4



966. The requirement should specify 1. Whv 2. What 3. How All of the above 4. 967. V Shape Model Builds the throwaway version intend to test concept & requirements 1. 2. Adds risk analysis, and 4gl RAD prototyping to the waterfall model Is a variant of the Waterfall that emphasizes the verification and validation 3. None of the above 4. 968. Just as the entry point to a C program is the function main(), the entry point to a Windows program (WinMain()) 969. The three main Windows libraries are \_\_\_\_\_\_, \_\_\_\_\_ & \_\_\_\_\_. (Kernel.32, User32, GDI32) 970.. The size of Unicode character is bits. (32) 971.. CreateWindow() function sends the \_\_\_\_\_\_ message. (WM\_CREATE) 972.. UpdateWindow() function sends the \_\_\_\_\_\_ message. (WM\_PAINT) 973. PostQuitMessage() function posts the message. (WM QUIT) 974. GetMessage() function retrieves a message from the . (message queue) 975. GetMessage() returns , when it retrieve WM QUIT message form the message queue. (0) 976. TranslateMessage() function is used for translation. (Keyboard) 977. Window procedure function is a \_\_\_\_\_\_ function. (CALLBACK) 978. TA program can call its own window procedure by using the function. (SendMessage) 979. DispatchMessage() function passes the MSG structure back to . (Windows) 980. The very first message that a window procedure receives is . (WM CREATE)

981. RegisterClass() associates a window procedure to the \_\_\_\_\_\_. (window class)



982. Window r	messages are defir	ned in both wir	ndows.h and _	header f	iles. (winuser.h)
(Window Proc	edure)			in the fo	rm of message.
984	API is used fo	r subclassing. (	SetwindowLo	ng() )	
985	API is used for	character tran	slation of keys	trokes. (TranslateM	essage() )
986. Message (WM_INITME		rs when the us	er clicks an ite	m on the menu bar	or presses a menu key.
963	API is used to k	kill a modal dia	log box. (EndD	ialog() )	
of these - ICON / CURSO	R / STRINGTABLE ,	/ DIALOG / ME	NU / BITMAP)	resources defined i (SetWindowText() )	n a .Res file. (Any three
					on / Font / Palette /
	_	·		function returns	
300 System i	reystrokes are gen	ierateu for key	s typed iii coii	ibiliation with the _	Key. (Ait)
967. System ke	eystroke messages	are	_ and	(WM_SYSKEYDO	WN, WM_SYSKEYUP)
968.The virtua (wParam)	al key code is store	ed in the	paramet	er of the WM_KEYD	OOWN message.
969. The repea	at count field is sto	ored in the	param	eter of the keystrok	te messages. (IParam)
	function is used ormatAvailable())	for checking tl	ne type of info	rmation available ir	clipboard.
963	_ function is used	to open the cl	ipboard. (Ope	nClipboard())	
964 board())	_ function is used	to clear the cli	pboard. (Emp	cyClip	
program is		C program is t	the function m	ain(), the entry poir	nt to a Windows
(WinMain() ) 963.The three GDI32)	main Windows lik	oraries are		&	(Kernel.32, User32,
964. The size o	of Unicode charact	er is bits. (	32)		



965. CreateWindow() function sends the message. (WM_CREATE)	
966. UpdateWindow() function sends the message. (WM_PAINT)	
967 PostQuitMessage() function posts the message. (WM_QUIT)	
968. GetMessage() function retrieves a message from the (message)	ge queue)
969. GetMessage() returns, when it retrieve WM_QUIT message form the m	essage queue. (0)
970. TranslateMessage() function is used for translation. (Keyboard)	
971. Window procedure function is a function. (CALLBACK)	
972.TA program can call its own window procedure by using the function	ion. (SendMessage)
973. DispatchMessage() function passes the MSG structure back to (V	Vindows)
974. The very first message that a window procedure receives is (W	M_CREATE)
975 RegisterClass() associates a window procedure to the (window	class)
976. Window messages are defined in both windows.h and header file	es. (winuser.h)
977. Everything that happens to a window is relayed to the in the form (Window Procedure)	n of message.
978 API is used for subclassing. (SetWindowLong())	
979 API is used for character translation of keystrokes. (TranslateMes	ssage())
980. Message occurs when the user clicks an item on the menu bar or	presses a menu key
(WM_INITMENU)	
963 API is used to kill a modal dialog box. (EndDialog() )	. Dag fila / A thuas
964, and are windows resources defined in a of these -	.kes file. (Any three
ICON / CURSOR / STRINGTABLE / DIALOG / MENU / BITMAP)	
963 API is used to set the text of an edit control. (SetWindowText())	
964 and are GDI objects. (Any two from Brush / Pen / Region Bitmap)	on / Font / Palette /



965. When there is no message in the queue, PeekMessage() function returns (FALSE or 0)
966. System keystrokes are generated for keys typed in combination with the key. (Alt)
967. System keystroke messages are and (WM_SYSKEYDOWN, WM_SYSKEYUP)
968 The virtual key code is stored in the parameter of the WM_KEYDOWN message. (wParam)
969 The repeat count field is stored in the parameter of the keystroke messages. (IParam)
970 function is used for checking the type of information available in clipboard. (IsClipboardFormatAvailable())
963 function is used to open the clipboard. (OpenClipboard())
964 function is used to clear the clipboard. (EmptyClipboard()) 965. Just as the entry point to a C program is the function main(), the entry point to a Windows program is (WinMain())
963. The three main Windows libraries are, & (Kernel.32, User32, GDI32)
964 The size of Unicode character is bits. (32)
965.CreateWindow() function sends the message. (WM_CREATE)
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967. PostQuitMessage() function posts the message. (WM_QUIT)
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969. GetMessage() returns, when it retrieve WM_QUIT message form the message queue. (0)
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971. Window procedure function is a function. (CALLBACK)
972.TA program can call its own window procedure by using the function. (SendMessage)
973. DispatchMessage() function passes the MSG structure back to (Windows)
974. The very first message that a window procedure receives is (WM_CREATE)



975. Register	class() associates a wind	ow procedure to the _	(window cla	iss)
976. Window	messages are defined in	both windows.h and	header files	. (winuser.h)
(Window Prod	•			of message.
978	API is used for subcl	assing. (SetWindowLo	ng() )	
979	API is used for chara	cter translation of key	strokes. (TranslateMess	age() )
980. Message (WM_INITME	occurs whe	en the user clicks an ite	em on the menu bar or p	oresses a menu key
963	API is used to kill a n	nodal dialog box. (End	Dialog() )	
964 of these -	<i>,</i> and	are windows	resources defined in a .	Res file. (Any three
ICON / CURSO	OR / STRINGTABLE / DIAL API is used to set the	•		
964 Bitmap)	_ and are GD	I objects. (Any two fro	m Brush / Pen / Region	/ Font / Palette /
965. When the	ere is no message in the	queue, PeekMessage(	) function returns	(FALSE or 0)
966.System k	eystrokes are generated	for keys typed in com	bination with the l	cey. (Alt)
967.System k	eystroke messages are _	and	(WM_SYSKEYDOWN	I, WM_SYSKEYUP)
968.The virtu (wParam)	al key code is stored in t	he parame	ter of the WM_KEYDOV	VN message.
969.The repe	at count field is stored in	n the parar	neter of the keystroke n	nessages. (IParam)
	function is used for cl ormatAvailable())	necking the type of inf	ormation available in cli	pboard.
963	_ function is used to ope	n the clipboard. (Oper	Clipboard()	
964	function is used to cle	ear the clipboard. (Emp	tyClipboard())	
965.Software	acts with a dual role as	_		

- A. Application software and Embedded software
- B. Embedded software and Product-line software
- C. Software product and Environment or application tool for software product development
- D. Application software and Data storage



#### Answer: C

966. Which one of the following is false statement?

- A. Software is developed or engineered, it is not manufactured in the classic sense
- B. Replacement of parts is always an ideal solution
- C. Software does not 'wear out' though it may deteriorates over a period
- D. None of the above

Answer: B

967. Software Engineering encompasses -

- A. Process, Methods, and Tools
- B. Process, Product, And Methods
- C. Methods, Tools, and People
- D. People, Process, and Product

Answer: A

968. Which one of the following is correct list of prescriptive process model?

- A. Waterfall, Incremental, Spiral,
- B. Waterfall, V-shaped, Prototyping
- C. Prototyping, Spiral, Adaptive S/w development
- D. Waterfall, Incremental, V-shaped

Answer: D

969. Which process model will you adopt for a project having

- Lengthy delivery schedule
- All requirements are known upfront & well established and
- Customer needs important functionality to be implemented at earliest?
- A. Waterfall
- B. Prototyping
- C. Incremental
- D. RAD

Answer: C

970. Risk analysis and 4gl RAD prototyping is added to the waterfall model to form a ------ model

- A. Spiral
- B. Prototyping
- C. V-shaped
- D. RAD



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971. ----- model is a variant of the Waterfall model, which also emphasizes the verification and validation

- A. Waterfall
- B. Prototyping
- C. Incremental
- D. V-shaped

Answer: D

#### 972. Requirement should specify

- A. Hardware required to complete the project
- B. Resource requirement
- C. A precise and mathematical list of things that describes what proposed software should provide
- D. Description of how to develop the system

Answer: C

973. Stakeholders are asked to rank / prioritise requirements & discuss conflicts in priority in ------ stage of requirement engineering.

- A. Conflict resolution
- B. Elaboration
- C. Specification
- D. Negotiation

Answer: D

974. Use-cases are defined from ----- point of view

- A. An actor's
- B. A function's
- C. An actor and function's
- D. None of the above

Answer: A

975. Product requirements, Organizational requirements, & External requirements are example of

- A. Domain requirements
- B. Non-functional requirements
- C. Functional requirements
- D. None of the above



Answer: B

976. Which of the following models collectively form the design model?

- A. Data design, Architectural design, Interface Design, Component Design
- B. Data design, Architectural design, System design, Program design
- C. Architectural design, Interface Design, Functional design, Class design
- D. None of the above

Answer: A

977. Cohesion is --

- A. Qualitative indication of the degree to which a module focuses on just one thing
- B. Qualitative indication of the degree to which a module is connected to other modules & to outside world
- C. Both 1 & 2
- D. None of the above

Answer: A

978. Which of the following is FALSE statement?

- A. Abstractions allows designers to focus on solving a problem without being concerned about irrelevant lower level details
- B. Modularity is ability to understand the software by examining its components independently
- C. Control hierarchy represents the procedural aspects of the software
- D. None of the above

Answer: C

979. Coupling is --

- Qualitative indication of the degree to which a module focuses on just one thing
- B. Qualitative indication of the degree to which a module is connected to other modules & to outside world
- C. Both 1 & 2
- D. None of the above

Answer: B

980. Validation process checks -

- A. Whether we are building the right product
- B. Whether we are building the product
- C. Whether we are building the product right
- D. Whether we are testing the product

Answer: A

981. Smoke testing is an ---- testing approach, which is used when software is being developed

- A. Unit testing
- B. Regression testing
- C. Integration testing
- D. Acceptance testing



Answer: C

982.---- is conducted at developer's site by end-users

- A. Beta testing
- B. Alpha testing
- C. White box testing
- D. None of the above

Answer: B

#### 983. Unit testing is

- A. A Black box testing
- B. A White box testing
- C. An User Acceptance Testing
- D. Not a testing

Answer: B

984.---- provides the maximum number of test cases that will be required to guarantee that every statement in program has been executed at least once.

- A. Independent Program paths
- B. Cyclomatic complexity
- C. Graph Matrices
- D. None of the above

Answer: B

#### 985. Content testing uncovers

- A. Syntactic errors
- B. Semantic errors
- C. Structural errors
- D. All of the above

Answer: D

986. Reliability is indicated by following attributes -

- A. Maturity, fault tolerance, recoverability
- B. Understandability, learnability, accuracy
- C. Suitability, accuracy, compliance
- D. All of the above

Answer: A

# 987. Consider the following data for the effort spent on various tasks in project

- 120 Coding Self code walk-thru - 04 Code review - 06 Rework (Bug fixing) - 37 - 02 **Training Tool Development** - 10 **Testing** - 35 Preparing check list - 01

What is the Cost of quality, Failure cost, prevention cost, and appraisal cost?

- A. 120, 35, 37
- B. 37, 95, 120
- C. 95, 37, 13, 45

D. 120, 13, 45

Answer: C

#### 988. Warranty work is an example of -----

- A. Prevention cost
- B. External failure cost
- C. Internal failure cost
- D. All of the above

Answer: B

#### 989. Match the following

- a) Internal failure cost
- i) Efforts spent in post-delivery defect fixing
- b) Appraisal Cost
- ii) Efforts spent in pre-delivery defect fixing
- c) External failure cost
- iii) Efforts spent on quality planning, tools development & training
- d) Prevention cost
- iv) Efforts spent on reviews and testing
- A. a-iv b-iii c-ii d-i
- B. a-iv b-ii c-iii d-i
- C. a-Ib-iii c-ii d-iv
- D. a-ii b-iv c-i d-iii

Answer: D

990. There are --- levels of CMMi

- A. 5
- B. 3
- C. 1
- D. 6

Answer: A

991. The objective of project planning is to provide

- A. Hardware & software requirement
- B. Framework that helps to make reasonable estimates of resources, cost and schedule
- C. Only the list of risks identified
- D. None of the above

Answer: B

#### 992. Pick up the correct statement from following

- A. Project estimates should not be updated during project development
- B. Project estimates should be updated only at the end of the project
- C. Project estimates should be updated as the project progresses
- D. None of the above



#### Answer: C

993. The purpose of project management is -

- A. Prediction and prevention
- B. Prediction and reaction
- C. Recognition and reaction
- D. None of the above

Answer: A

994. Software project management is ----- within SDLC

- A. A phase
- B. An umbrella activity
- C. A milestone
- D. None of the above

Answer: B

995. Which one of the following is FALSE statement

- A. Gantt charts are often used for displaying the project schedule
- B. Gantt chart shows both planned and actual schedule information
- C. CPM is used for finding total project cost
- D. Critical path is the longest path through the network diagram

Answer: C

996. In Software project management, 4 Ps have to be managed in following order -

- A. Project, People, Product, Process
- B. Process, Problems, People, Product
- C. People, Product, Process, Project
- D. Product, People, Process, Problem

Answer: C

997. A method of estimating the amount of functionality required for a project is

- A. WBS Estimation
- B. UCP Estimation
- C. FP Estimation
- D. COCOMO estimation

Answer: C



# 998. Scheduling begins with -----

- A. Risk identification
- B. Process decomposition
- C. FP Estimation
- D. COCOMO estimation

Answer: B

999. One of the limitations of FP analysis is

- A. Evaluation effort is small
- B. Facilitates verification
- C. Does not provide phase-wise break up
- D. None of the above

Answer: C

1000. Which one of the following is true

- A. Deliverables are usually milestones but milestones need not be deliverables
- B. All milestones are deliverables
- C. Deliverables & Milestones are always deliverables
- D. None of the above

Answer: A

1001. Risk assessment is done in

- A. Analysis Phase
- B. Design Phase
- C. Coding Phase
- D. All phases of the project

Answer: D

1002. Risk score (or Risk Exposure) is a product of

- A. Probability of occurrence and Impact on project should the risk occur
- B. No. of resources on project and daily per person rate
- C. Probability of occurrence and total No of resources
- D. None of the above

Answer: A

1003. Risk assessment Process involves

- A. Risk identification, Treating problems, Issue resolution
- B. Identify problems, Resolve problems, Report problem
- C. Risk Identification, Assessment & Measurement, Planning, Tracking, Control
- D. None of the above

Answer: C

1004. In Risk management, the purpose of Risk Assessment is



- A. To convert risk data into decision making information
- B. To shift the impact of the threat to a third-party
- C. To reduce probability and impact
- D. To define roles and responsibilities

Answer: A

1005. Does an organization develop one life cycle model?

- a) for all the projects
- b) for each project
- c) for each domain

1006. Pick up the odd one out of the following:

- a) Software Design
- b) Software Testing
- c) Software Quality Assurance

1007. Software requirements should not be

- a) functional
- b) ambiguous
- c) consistent

1008. Find the odd one out of the following:

- a) stepwise refinement
- b) structural design
- c) information hiding

1009. The decision logic is expressed by

- a) data flow diagram
- b) flow chart
- c) structure chart

1010. Validation is to check

- a) whether we are building the product right
- b) whether we are building the right product
- c) the methodology of software development

1011. Corrective maintenance is to

- a) improve the system in some way without changing its functionality
- b) correct the undiscovered errors
- c) make changes in the environment

1012. Which software development model incorporates risk managaement?

- a) waterfall model
- b) spiral model
- c) incremental model

1013. Four important characteristics of a software product are

- a) dependability, usability, reliability, robustness
- b) maintainability, dependability, efficiency, usability
- c) Supportability, maintainability, visibility, rapididty



- 1014. Object models
- a) should include details of the individual objects in the system
- b) are part of design
- c) are natural ways of reflecting the real world entities that are manipulated by the system.

#### 1015. The three classes of interface errors are:

- a) interface misuse, interface misunderstanding, timing errors
- b) interface misunderstanding, interface coupling, data transfer errors
- c) interface coupling, timing errors, interface parameter errors

# 1016. Which is the non-technical factor of maintenance cost?

- a) program age
- b) programming style
- c) program validation

#### 1017. Software quality assurance is

- a) a multitier testing strategy
- b) a measurement and reporting mechanism
- c) an activity that is applied throughout the software process.

#### 1018. Verification is to check

- a) whether we are building the right product
- b) whether we are building the product right
- c) neither of the above

# 1019. Most common but least effective way of debugging is

- a) brute force
- b) backtracking
- c) cause elimination

#### 1020. Equivalence paritioning is

- a) a white-box testing method
- b) a black-box testing method
- c) neither white-box nor black-box testing method

#### 1021. The typical elements of the requirements engineering process are

- i) Problem analysis
- ii) software design
- iii) Analysis of staffing needs
- iv) Externalbehavior specification
- A) i and iv
- B) ii and iii
- C) i, iii and iv
- D) i, ii and iii

# 1022. In object models, information hiding conceals

- A) Operations
- B) Attributes



- C) methods
- D) state and behaviour
- 1023. Which of the following types of test plans is most likely to arise form the requirements specification process?
- A) system integration test plan
- B) acceptance test plan
- C) sub-system integration test plan
- D) module test plan
- 1024. In object-orientation, polymorphism means
- A) There can be many objects in the design
- B) Methods can be changed in many ways
- C) Many objects can be instantiated of a class
- D) Objects can implement the same method in many ways.

#### Fill in the blanks:

1025. The sooner you begin \_\_\_\_\_\_, the longer it will take to get done.

# Answers the followings in brief:

- 1026. Explain the concept of black box.
- 1027. What are the qualities of software?
- 1028. Give the various steps in prototyping.
- 1029. What are the various fact-finding Techniques?
- 1030. What are the types of decision tables?
- 1031. What are the structures of Structured English?
- 1032. Give a brief note on acceptance testing.
- 1033. Define coupling and cohesion.
- 1034. What is maintenance? Explain about various types of maintenance.
- 1035. Differentiate between Decision Tree and Decision Table.
- 1036. Give the coding guidelines.
- 1037. Give the debugging approaches.
- 1038. Why Software doesn't wear out.
- 1039. Explain about Dos and Don'ts of good coding style.
- 1040. Give the contents of SRS document.
- 1041. Explain briefly about SEI CMM.
- 1042. What is feasibility study? Explain about various aspects of feasibility.
- 1043. Define normalization and explain about first three normal forms.
- 1044. What is changeover? What are the types of changeover
- 1045. Differentiate between Black Box and White Box testing
- 1046. Explain about Interview as a Fact Finding technique
- 1047. What are the various factors that influence software cost-estimation.
- 1048. Write a short note on Structured charts.
- 1049. Explain about the various concepts of a system.
- 1050. Give Salient features of CASE tools.
- 1051. Explain about various stages of software Development according to classical life cycle.

#### Answers the followings in detail:

1052. Compare and contrast the two life cycle models viz. Waterfall and Spiral models. (Mention at least three distinct aspects).

- 1053. State the importance of requirements management in a software development
- 1054. Discuss and compare the coupling and cohesion in software design
- 1055. Discuss the trade-off between error checking execution time / memory space overhead.
- 1056. How can the overhead be reduced or eliminated?
- 1057. Give some reasons for using global variables than parameters. What are the potential problems created by the use of global variables?
- 1058. Develop test plan for the library management system (List at least three test cases).
- 1059. Explain why it is very difficult to produce a complete and consistent set of requirements.
- 1060. Discuss the differences between object-oriented and function-oriented design strategies
- 1061. Explain why maximising cohesion and minimising coupling leads to more maintainable Systems
- 1062. Show using a small example, why it is practically impossible to exhaustively test a code.
- 1063. List at least five distinct tests to exercise the various features of the Powerpoint software used for slide preparation and projection.
- 1064. State the importance of requirements management in a software development
- 1065. Develop a high level data flow diagram for an airline reservation system
- 1066. Discuss the trade-off between error checking execution time / memory space overhead.
- 1067. How can the overhead be reduced or eliminated?
- 1068. Give some reasons for using global variables than parameters. What are the potential problems created by the use of global variables?
- 1069. Develop test plan for the library management system (List at least five test cases).
- 1070. Rewrite the following requirements so that they may be objectively validated. You may make any reasonable assumptions about the requirements.
- a) The software system should provide acceptable performance under maximum load conditions
- b) Structured programming should be used for program development
- c) The software must be developed in such a way that it can be used by inexperienced users.
- 1071. Model the data processing which might take place in an electronic mail system that can send and receive messages from remote computers.
- 1072. Discuss the advantages of incremental model as compared to water fall model. Can a program be correct and still not be reliable? Explain



- 1073. Discuss how you would approach the top-down design of a software system.
- 1074. Discuss the advantages and disadvantages of using the "antibugging" technique to provide built-in debugging assistance to uncover errors.
- 1075. Discuss at least three reasons that would highlight the importance of software maintenance.
- 1076. Compare and contrast the white-box and black-box testing methods.
- 1077. Discuss the importance of documentation in software development.
- 1078. Discuss the pros and cons of the COCOMO model for cost estimation
- 1079. Make a structure chart for the following:
- 1080. Given an array of integers, arrange them in ascending order using quick sort method.
- 1081. Develop a software review checklist for use by the designer and the implementor. What issues are important to each of these roles?
- 1082. Develop a high-level data flow diagram and a structure chart for an airline reservation system.
- 1083. Develop an architecture and also flow diagrams (up to 2 levels) for the following: "Consider the automation of the transaction at the registration counter of a post-office. A scanner is provided to capture the "from" and "to" addresses from the envelop. The clerk uses your software to issue receipts to the customers. This is expected to reduce the waiting time at the counter."
- 1084. Suppose that a 50-KDSI (Thousands of delivered source instructions) application program can be purchased for Rs. 2,000,000/-. Assuming that your in-house programmers cost Rs.30,000/- per programmer month (including overheads), would it be more cost effective to buy the product or to build it?
- 1085. A Manager decides to use the reports of code inspections as an input to the staff appraisal process. These reports show who made and who discovered program errors. Is this ethical managerial behaviour? Would it be ethical if the staff were informed in advance that this would happen? What difference might it make to the inspection process?
- 1086. Apply a "stepwise refinement process" to develop three different levels of procedural abstraction for developing a cheque writer that, given a numeric rupees amount, will print the amount in words that is normally required on a cheque.
- 1087. Derive a set of test cases for a code which sorts arrays of integers. Draw a flow graph for an algorithm of your choice and derive its cyclomatic complexities
- 1088. A university intends to procure an integrated student management system holding all details of registered students including personal information, courses taken, and examination marks achieved. The alternative approaches to be adopted are either a) buy a database management system and develop an in-house system based on this



database.

- b) buy a system from another university and modify it to local requirements
- c) join a consortium of other universities, establish a common set of requirements and contract a software home to develop a single system for all of the universities in the consortium. Identify two possible risks in each of these strategies.
- 1089. Consider the error messages produced by MS-DOS or UNIX or WINDOWS operating system. Suggest how they might be improved.
- 1090. Develop at least two levels of procedural abstraction for implementing the savings bank transactions in a banking system.
- 1091. Draw a flow graph for the following and find its cyclomaticcomplexity: Given 1000numbers, arrange them in ascending order using any one of the sorting methods.
- 1092. Design test cases for the following problem: Given a quadratic equation, solve it to find the roots.
- 1093. Oxford College of Commerce is an undergraduate college. The college receives sufficiently large number of application for admission to FY, SY and TY B. Com. classes.
- 1094. The college has decided to computerize its admission procedure. The standard admission procedure requires adhering to the norms set by concerned government agencies, the university and the college administration. The procedure also involves disbursing admission forms at a cost, collecting duly completed forms, preparing merit lists and admitting the students as per norms, notifying student, collecting fees, preparing and submitting reports to concerned authorities.

By carefully studying the case you are required to solve the following:

- i. Draw a context level and first level DFD
- ii. Identify the various reports required
- 1095. Draw the context level diagram for a payroll system
- 1096. Prepare Context diagram for the saving bank deposit and withdrawal system in a nationalized bank. Also draw the first level DFD for the same.
- 1097. Ratanlal College of Commerce is an undergraduate College. The college receives sufficiently large number of applications for admission to FY, SY and TY. Bcom classes. The college has decided to computerize its admission program. The standard admission procedure requires adhering to the norms set by concerned government agencies, the university and the college administration. The procedure also involves disbursing admission forms at a cost, collecting duly completed forms, preparing merit list and admitting students as per norms, notifying students, collecting fees, preparing and submitting reports to the concerned authorities

You are required to identify:

(i) Entities:

**Processes** 

Data flows

**Data Stores** 

1098. Quality control

a) Focuses on inspections, testing and removal of defects before release.



- b) Is a set of planned and systematic actions to provide confidence that a product or service will satisfy given requirements for quality.
  - d) is to check the system for its interface errors.

# 1099. Analysis phase is

- a) not to actually solve the problem
- b) not to determine exactly what must be done to solve the problem
- c) to move quickly to program design
- 1100. Four important characteristics of a software product are
- a) dependability, usability, reliability, robustness
- b) maintainability, dependability, efficiency, usability
- c) Supportability, maintainability, visibility, rapididty

# 1101. Object models

- a) should include details of the individual objects in the system
- b) are part of design
- c) are natural ways of reflecting the real world entities that are manipulated by the system.
- 1102. Equivalence partitioning is
- a) A white-box testing method
- b) A black-box testing method
- c) Neither white-box nor black-box testing method
- 1103. The typical elements of the requirements engineering process are
- i) Problem analysis
- ii) Software design
- iii) Analysis of staffing needs
- iv) Externalbehavior specification
- A) i and iv
- B) ii and iii
- C) i, iii and iv
- D) i, ii and iii
- 1104. In object models, information hiding conceals
- A) Operations
- B) Attributes
- C) methods
- D) state and behaviour
- 1105. Which of the following types of test plans is most likely to arise form the requirements specification process?
- A) system integration test plan
- B) acceptance test plan
- C) sub-system integration test plan
- D) module test plan

#### Answers the followings in detail:

1106. Explain why maximising cohesion and minimising coupling leads to more maintainable Systems

- SO 9001-2008
- 1107. Show using a small example, why it is practically impossible to exhaustively test a code.
- 1108. List at least five distinct tests to exercise the various features of the Powerpoint software used for slide preparation and projection.
- 1109. State the importance of requirements management in a software development
- 1110. Develop a high level data flow diagram for an airline reservation system
- 1111. Discuss the trade-off between error checking execution time / memory space overhead. How can the overhead be reduced or eliminated?
- 1112. Give some reasons for using global variables than parameters. What are the potential problems created by the use of global variables?
- 1113. Develop test plan for the library management system (List at least five test cases).
- 1114. Rewrite the following requirements so that they may be objectively validated. You may make any reasonable assumptions about the requirements.
- a) The software system should provide acceptable performance under maximum load conditions
- b) Structured programming should be used for program development
- c) The software must be developed in such a way that it can be used by inexperienced users.
- 1115. Model the data processing which might take place in an electronic mail system that can send and receive messages from remote computers.
- 1116. Discuss the advantages of incremental model as compared to water fall model. Can a program be correct and still not be reliable? Explain
- 1117. Discuss how you would approach the top-down design of a software system.
- 1118. Discuss the advantages and disadvantages of using the "antibugging" technique to provide built-in debugging assistance to uncover errors.
- 1119. Discuss at least three reasons that would highlight the importance of software maintenance.
- 1191. Compare and contrast the white-box and black-box testing methods.
- 1192. Discuss the importance of documentation in software development.
- 1193. Discuss the pros and cons of the COCOMO model for cost estimation
- 1194. Make a structure chart for the following:

Given an array of integers, arrange them in ascending order using quick sort method.

1192. Develop a software review checklist for use by the designer and the implementor. What issues are important to each of these roles?



- 1193. Develop a high-level data flow diagram and a structure chart for an airline reservation system.
- 1194. Develop an architecture and also flow diagrams (up to 2 levels) for the following: "Consider the automation of the transaction at the registration counter of a post-office. A scanner is provided to capture the "from" and "to" addresses from the envelop. The clerk uses your software to issue receipts to the customers. This is expected to reduce the waiting time at the counter."
- 1195. Suppose that a 50-KDSI (Thousands of delivered source instructions) application program can be purchased for Rs. 2,000,000/-. Assuming that your in-house programmers cost Rs.30,000/- per programmer month (including overheads), would it be more cost effective to buy the product or to build it?
- 1196. A Manager decides to use the reports of code inspections as an input to the staff appraisal process. These reports show who made and who discovered program errors. Is this ethical managerial behaviour? Would it be ethical if the staff were informed in advance that this would happen? What difference might it make to the inspection process?
- 1197. Apply a "stepwise refinement process" to develop three different levels of procedural abstraction for developing a cheque writer that, given a numeric rupees amount, will print the amount in words that is normally required on a cheque.
- 1198. Derive a set of test cases for a code which sorts arrays of integers. Draw a flow graph for an algorithm of your choice and derive its cyclomatic complexities
- 1199. A university intends to procure an integrated student management system holding all details of registered students including personal information, courses taken, and examination marks achieved. The alternative approaches to be adopted are either
- a) buy a database management system and develop an in-house system based on this database.
- b) buy a system from another university and modify it to local requirements
- c) join a consortium of other universities, establish a common set of requirements and contract a software home to develop a single system for all of the universities in the consortium. Identify two possible risks in each of these strategies.
- 1200. Consider the error messages produced by MS-DOS or UNIX or WINDOWS operating system. Suggest how they might be improved.
- 1201. Develop at least two levels of procedural abstraction for implementing the savings bank transactions in a banking system.
- 1202. Draw a flow graph for the following and find its cyclomaticcomplexity: Given 1000numbers, arrange them in ascending order using any one of the sorting methods.
- 1203. Design test cases for the following problem: Given a quadratic equation, solve it to find the roots.
- 1204. Oxford College of Commerce is an undergraduate college. The college receives sufficiently large number of application for admission to FY, SY and TY B. Com. classes. The college has decided to computerize its admission procedure. The standard admission procedure requires adhering to the norms set by concerned government agencies, the



university and the college administration. The procedure also involves disbursing admission forms at a cost, collecting duly completed forms, preparing merit lists and admitting the students as per norms, notifying student, collecting fees, preparing and submitting reports to concerned authorities.

By carefully studying the case you are required to solve the following:

- i. Draw a context level and first level DFD
- ii. Identify the various reports required
- 1192. Draw the context level diagram for a payroll system
- 1193. Prepare Context diagram for the saving bank deposit and withdrawal system in a nationalized bank. Also draw the first level DFD for the same.
- 1192. Ratanlal College of Commerce is an undergraduate College. The college receives sufficiently large number of applications for admission to FY, SY and TY. Bcom classes. The college has decided to computerize its admission program. The standard admission procedure requires adhering to the norms set by concerned government agencies, the university and the college administration. The procedure also involves disbursing admission forms at a cost, collecting duly completed forms, preparing merit list and admitting students as per norms, notifying students, collecting fees, preparing and submitting reports to the concerned authorities

You are required to identify:

(i) Entities:

**Processes** 

Data flows

**Data Stores** 

- (ii) Draw E-R Model of the System
- 1193. Which SDLC Model is best suited when only part/some of the requirements are known at the beginning
- a. Waterfall Model
- b. Incremental Model
- c. Prototype Model
- d. Spiral Model

1194	_is an entity that is extemal	to the system 8	& directly interacts	s with the system ar
deriving some k	penefits from the interactio	n.		

- A. Actor
- B. Use case
- C. Class
- D. Relationship
- 1195. Review activity of any software is under which kind of Testing?
- A. Black Box Testing
- B. Static Testing
- C. Dynamic Testing
- D. White Box Testing



D. Post checking

Techni A. Stat 8. Whi C. Blac	Equivalence Partitioning is a test case generation technique, forique. cic Testing te Box Testing ck Box Testing Box Testing	kind of Testing
a. b. c.	In the Project Management Triangle. Which parameter is most important Time Scope Cost All of the above are equally important	t?
a. Pr b. Te c. Re	Quality assurance help for rocess improvement esting emoval of defects before release II of the above	
A. Ada B. Enh	ancement ntenance	
A. Soft B. Con C. Soft	Which one of the following is the process of factoring the design module ware re-engineering figuration management ware maintenance tware Refactoring	?
1201.	which of the following process is not part of Project Risk Management?	
A. Risk	Identification	
B. Effo	ort estimation	
C. Risk	Anaiysis	
D. Risk	Response Development	
1202.	enhances performance 8. functionality of the software after delivery.	
	design engineering ntenance	

1203. Which of the following is not a stage of requirement engineering process?



<ul><li>A. Feasibility study</li><li>8. Requirement analysis</li><li>C. Requirement definition</li><li>0. Implementation</li></ul>		
1204. Which of the following are objectives for formal technical reviews?		
<ul><li>a. Allow senior staff members to correct errors</li><li>b. Uncover errors in software work products</li></ul>		
c. Assess programmer productivity		
d. Determining who introduced an error into a program		
1205. Which of the following meetings is not part of Scrum?		
A. Product review meeting		
B. Sprint review meeting		
C. Sprint planning meeting		
D. Sprint retrospective meeting		
1206. In Scrum, the prioritized work to be done is referred to as		
<ul><li>a. sprint planning</li><li>b. product backlog</li><li>c. sprint retrospective</li><li>d. standup meetings</li></ul>		
1207. Software risk impact assessment should focus on consequences affecting		
A. planning.resources. oost& schedule B. matketability.oost& personnel		
C. business, technology & process		
D. performance.support, oost& schedule		
1208. The process starting with the terminal modules is called		
a. Top-down integration		

Bottom-up integration

Module integration

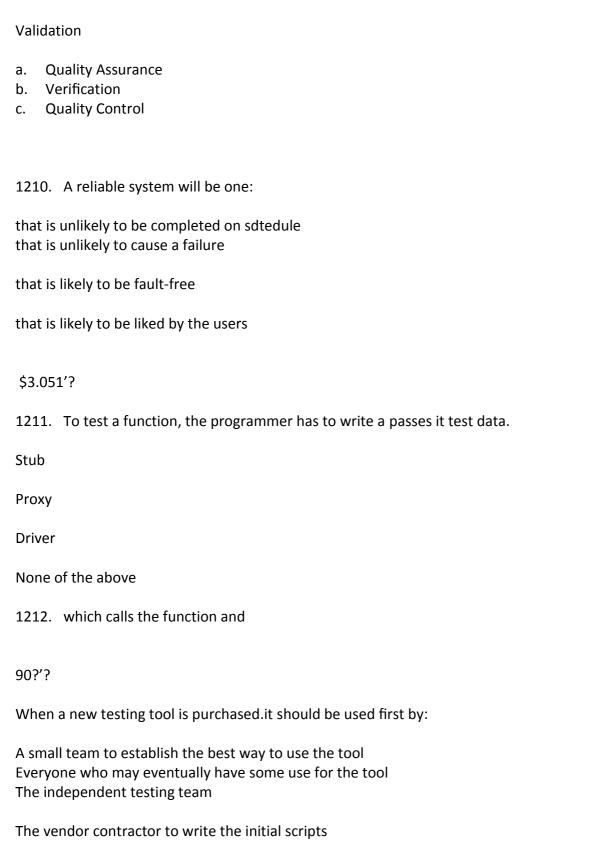
None of the above

b.

c. d.



1209. To check whether we are developing the right product according to the customer requirements or not. This is known as static process .



1213. Pick up IEEE the best definition of software engineering?

Set of computer programs. procedures and possibly associated document concemed with the operation of data processing.



Software engineering is Design. Coding. Development

Software engineering implement a single independent function

Software engineering is the establishment and use of sound engineering practice in order to produce economical and reliable software that will perfonn efficiently on real machine

1214. The identification of stakeholders and user classes in requirements engineering is carried out in

Elicitation

**Analysis** 

Verification

Specification

1215. Which among the following gives a chronological record of relevant details about the execution of tests?

- A. Test incident report
- B. Test log
- C. Test summary report
- D. None of the above

1216. What is not included in a System Requirement Specification Document? Scope
Specific Requirements
Design Solutions
References

- 1217. Project risk factor is considered in
  - a. Spiral Model
  - b. Waterfall Model
  - c. Prototyping Model
  - d. Iterative enhancement Model

1218. Formal Reviews of an individual product. used to evaluate correctness. based on its input criteria are .

Inspections

Checkpoint review

**Testing** 

Walkthrough

1219. which of the below listed processes is not part of Project Planning? Identify Constraints Identify Algorithms



# Identify Risks Identify Milestones

- 1220. Which one of the following is false statement?
- A. Software is developed or engineered. it is not manufactured in the classic sense
- B. Replacement of parts is always an ideal solution
- C. Software does not 'wear out' though it may deteriorates over a period
- D. None of the above

1221. which of these is not one of the phase names defined by the Unified Process model for software development?

Inception phase Elaboration phase Construction phase Validation phase

1222. which of the following is not one of Hookers core principles of software engineering practice?

All design should be as simple as possible, but no simpler

A software system exists only to provide value to its users.

Pareto principle (20% of any product requires 80% of the effort)

Remember that you produce others will consume

- 1223. Which of the following is valid reason(s) for collecting customer feedback concerning delivered software?
  - a) Allows developers to make changes to the delivered increment
  - b) Delivery schedule can be revised to reflect changes
  - c) Developers can identify changes to incorporate into next increment
  - d) All of the above
- 1224. Which of the following is not generally considered a player in the software process?
- A. Customers
- B. End-users
- C. Sales people
- D. Project managers